

FIGURE 1

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1   ggatccagaa taacccaaaac aatattgaaa aataaagaac agcgttggtg gattaacatt
61  ttccaatttc aaaacttact atagcactgc ggtaatcaag cagtgtggca ctgtatagca
121 tgtacattac agatcagtgg actagaatca atgtccagaa ataaaccgtt atgtttataa
181 tgaattactt ttttaataagg tgtcaagaca acgcaatggg aaaagaataa tgaattcaac
241 aaatgatgca tggacaaccg gacatgcaca tgcaacacaa tgaatttgaa ttcttctatc
301 gctccatgca taaaaactaa ctcaaaatgg gtcaaggatg taaatgaaaa gctaaaacta
361 taataatcct agaggaaaac ctaggagtaa atctttaaga tgttattgta ggcagtgggt
421 tctcagatag gaccccaaaa tcacaagcga caaaaagaaa ttggacttaa agttaaatc
481 ttttgtgctt caaacatcat caagaaagtg aaacacacac ccgcagaagc aataaaaatg
541 tctgtaagtc atgtatccga ttagagactt ctatccagga tatataaata atgcaattca
601 atgataaaaa agataaatag cccagttttc caaagagtca agcatctgaa tatacatctc
661 tccaaaaata tacagatatc caacaagcat gtgaaaagat gttcaaagcc atttgccagg
721 tgcacaaacc caagacagta tgaggagatg ctacagggac tctgctgctt cacagacatg
781 aagcgttggt gagaatgtag gcagccgcct ttggggactt cacatccccg ccgcccacg
841 cacggtgagc tagtgtttaa acttagccga gatcaataca cgcgactgtg tgcccgctcag
901 accctgcgct gccggcgggg ctgggagagg cgggcgcgag gaggggcggg gaacctgggg
961 gtcaggcccc agccgcggga agcgcgcca ggagcgcgag aaacctcttc cacaccttc
1021 caggcatttg cccgcgcgga ttcagagagc cgaccctgga cccctggcct cccctagaca
1081 gccccgcagc tccagatgtg ccgtcccgcc tgccctccgc gacctggc catctctggg
1141 cctgggcgag gttctcggcg cccggcctgc ccccgccagg agccgcaggt ccagccagtg
1201 aagaagcccg cgctgaagg agcctctgtg ctccagaatc catcctcagt atcagcgctg
1261 ggggtggcctc ctccaggaag cccttctgat tctctcatgg gtcgctcttc ctctgcagac
1321 tcccgagca cccctgctc caagtaccgc aagtggcact gagaacttgg ggagagcaga
1381 ggctgtgcct agatttgtag ggagtccccg cagctccacc ccagggccta caggagcctg
1441 gccttgggag aagccgaggc aggcaggcag ggcaaagggg ggaagcaatt caggagagaa
1501 cgagtgaacg aatggatgag ggggtggcag cgaggttgcc ccagtccctt ggctgcagga
1561 acagacacct cgctgaggag agaccagga gcgaggcccc tgcccgcgcc gaggcgaggt
1621 cccgccagc cggcgccgcg cgtgaagagt gggagagaag tactgcgggg gcggggcggg
1681 gggcgggggc gggggcgggg gcagccggga gcctggagcc agaccggggc ggggcggga
1741 ccggggccag ggaccagtgg tgggaggagg ctgcggcgct agatgcggac acctggaccg
1801 ccgcgcgag gctcccgcg ctcgctgctc ccgcggcccc cgccatgcc tctacacgg
1861 tcaccgtggc cactggcagc cagtggttcg ccggcactga cgactacac tacctcagcc
1921 tcgtgggctc ggcgggctgc agcgagaagc acctgctgga caagcccttc tacaacgact
1981 tcgagcgtgg cgcggtgagc gcgggcgggg cacgggtgga gcgcgggctg aggtgcgtcc
2041 gggacccggt ttggacggca gaggcctggg cgggggcgcc gaggggccgt cggggcgggc
2101 cggacaggac tgggggtgtc caggaccctg tcaggagggg cagaactgcg gtggggcggtg
2161 ccctgggctc ccagtggccg gtgggtacc

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FIGURE 2

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1      ttgcacgctn ctcagccccc gctgtactat tggctctacac gtgccatcgt ggtttgctgc
61     aacctcaaac ccatcatcta cattaggtat ttctcctaata gctctctttc cccttgcccc
121    ccacctctta acacgccctg ttgtgtgatg ttgacctccc tgtgtacatg tgttgtcatt
181    gtacaactcc tgcttatgag tgacaacatc tgtctgattt tctgtcttgt gttagtttgc
241    tgagaatgat ggttcccatc ttcatccttg tacctgcaaa ggacatgaac tcatccttta
301    atatggtctg ttagaatccc acagtataga tgtgcctcat tttctttatc cagactatca
361    ttgatgggca tttgggttgg atccaagact ttgctattgt gaacagtgat tcaataaaca
421    tacgagtgca tgtgtcttta tggatgaatg attgataatc ctttgggcat ataccacata
481    atgggattgc tggacctaata ggtttgcctg gatcctgatc cttgaggaat caccacactc
541    tottacagtg taaaagtgtc tctatatata ctcacccctt ccagcatctg ttattttactg
601    actctttaat catcaacctt cttactggag agagaagggt taattaccac taatgacgag
661    cctttaatca aattgttgtt ggacctttcc caacttactt gcgaaggggg catttgtaaa
721    cttacgccac cttttgatgg ggcagttttt ctctgtttat cgcgaagatc ctgggggacc
781    ccttttttta actcttttga agaccgttat atctgaacaa tttctcccat accgagaggt
841    ggoggggttac aaccttgatg agtttctttt tttttttggg gcccttagt ttcacaaaaa
901    tcccttogga ccaatttgcc ttttgttgcc aagggaattt tccccctaag tcactaggaa
961    tttttcccag ggcacacagg tgtagtggcc ttccccagaa tttttctcct gggatatcaa
1021   tgttataaga aaaaaaattg gggaattttt ttaaacctcc aataaaattt tttatagaga
1081   taaggccggg ttcatttnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
1141   nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnccg
1201   ggtcttcagc ccgtggtgaa gactgattaa cagtcataag aaggtaaagc tctaagtgc
1261   ctgtaagaaa catacagtct cacacaatta ggcaaggagt ccaacttgga agaaagagt
1321   gcatagattc aaacctgatg gccacaactt atgttaacct tcctgaggct caacttctca
1381   cacatgacag gagaatctca tcatgtacct caattaattg atatacagat tatggtaaac
1441   attcaatgaa aaagtatgta aagtttctat catttacta cagttggtat tcaacaaatg
1501   coacttttatt cactttctgt taagcctgaa agaagtactg aatgacatca acgagtgc
1561   ttcaacaaat ataatttgag cactgattac tcaataagca ttataggaa ctaaaatatt
1621   atcagcaaat gatggctgac atagaggaaa tgtgacagag taggaagatc cctgtactcc
1681   ctgtatcaaa ggactgagat tcttccactc aggaccatgt gtgaccccaa cagaaagtag
1741   aaatttaccg aaagatacct ggcaaacac ccaaatagtt tgaagttaaa caatctacct
1801   ctgaataaca ccccatggaa atttttaag attataatgt gaattaaaat gaaaacatat
1861   aaccataaca aaaattgtag gatacaggaa aactggtgct catatagcat taactgttta
1921   cattacattt tagagaatca acttaattca attatctaag tttctatttt agaaaactat
1981   gtaaaaaaag gagagcatat ttaaaaagta agcagaagaa caaaagataa gcatgacaga
2041   caatgaaatt gaaaatggaa aaatcataga gaagaatcaa atgaatcaa agtagtttct
2101   tggaaaagat caataaataa aattggttga tataatttat tgatattagg agtgggaaag
2161   ataactcact atcatagatc catgatgaac aagcttattt caataaatta ataaactcag
2221   caacttcaac aaaatggaca gattacttgg aagacaccaa ttaccaaagc tcaaaaaaag
2281   agaatctaaa tagtctata tttatgaaaa aaaaaaaca aactgaattt gtatttaaaa
2341   actttgccac aaagaaaatt ttaggttcag atgggtttcc taataaattt tcccattta
2401   gtaagaataa tatcaattct acacaaactc attcaaaaaa aaaggagaga gaatacttta
2461   caacacgttc tgcaaggtca gtattaccct gataccaaaa caaaggatat tacataaaaa
2521   cgacaccaat atccttcag aacatagatt cttcaccacg gggctggaag gatccgnnnn
2581   nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
2641   nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnatag cagcccttg agccctggt
2701   gaatataaga gattaggcta cagcgtgttc tactccaact ttatttgctt tctgagcatc
2761   taattccact ttgcaaaatg gacatttttt ttccctcttg agagtcagga aattaccagg
2821   tgtgccagga taatccttag tatcaactgt aaaatatcag tataaaataa tgagtaagca
2881   tatttcagtg ggtgtttata tgcttttggg tgcatagcat gagccaaagg cagataaaaa
2941   atgtgggctc cagatagtga ctcaatctcc agaaatcata atgtcagtta cacaatgata
3001   tttctatatt ggcatacaaa aataatccac ttgtcatagg ataattgctc tagatgaggg
3061   catggagctg tgctgaggaa tctgccattt ttctttatoc agactctgtc tcatacogac
3121   cacaggcccc aatcattgtc tatcaaaaaa catgcttggt tctcttttgg cttactatga
3181   aaggagcaa gatcttttcc tcaagcattt aagtgttgac tgtgggctac ccagtgtgct
3241   agacactgng gatcaaattc tgtgaggtta aaaatacccc ataactcact gगतगगाात

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FIGURE 2 (cont.'d)

3301	tcaaaatgct	cgctatgttg	attctatgat	caacttccaa	ggggaccttt	ntacctccta
3361	tcttcatcag	caagcaacta	cattgatttt	gtagcccagg	atctattccc	acgtcaaccg
3421	tgggtttcaa	atgtttgctc	tagctcaatg	gcctcttaag	ccactaacco	aatatgttgc
3481	tttttaccag	taaaaaagtg	catctgggga	ataagttggt	gtatatttgt	ggttcagcca
3541	gcccatagat	cgtccagagg	accccaggct	taggaggaat	cctcagattt	gagagccact
3601	gtcctgtagt	atgcagatag	cacagctctt	cctgaaaata	ggaattcaaa	tgaggaaaaa
3661	tgaaaactct	cctaattatt	ttcttctgcc	tctttcattc	caagctcatc	taattatcat
3721	gctctattgt	gaagaatcaa	agaaagaact	cataaatata	ccttttgtgc	ctgtattttg
3781	aatgtacgtt	gtgcatgtaa	gcctttgtgg	ttaagcaa	gtcaagaaaa	tccctagtcc
3841	cattgcttac	agtcaatatg	gggcaattca	agcaaagtat	atgcctctaa	tatggtttga
3901	aaattctgaa	agttcagaaa	aaatgttgct	acttcagcca	tctgatgtta	ctggatattg
3961	agaatgagac	ctcctctccc	tctgctttcc	tcatttccat	ctcctccttc	ctctttctcc
4021	tctctccctc	tcctttattc	tccttctccc	tcctctctct	ccatgcttac	tccttctctc
4081	ttctccctct	ttcttcttta	ttctccttct	ccctcctctc	tctctctccc	cttttctctc
4141	ccttctctct	ctccctccct	ctcctttatt	ctccttctcc	ctcctctctc	ctcttcccc
4201	ttttcctata	ttcccagatt	aggccatttt	caaaactggt	taaaacattcc	ccaaaagcat
4261	ttatgacaga	gaattgacta	ggatctcacc	tgaatcacag	agcttgccca	ttgaacacag
4321	gcaaagatca	agccattttc	tcttgatgtg	atgcttcagc	attttatgca	tttgaacaaa
4381	attttatgta	aaaaaaagct	tagccctttg	gtgacgggga	ttccttttct	ggatgatctg
4441	ccaaagaatc	aagaccaaac	gtccagctta	tcaaattttc	tctggacott	tannnnnnnn
4501	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
4561	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnccgtgggt	aagacttcca	cgtgaacttt
4621	aaagtagttt	tttccaattc	tgtgaagaat	gtcattggta	gcttgatggg	gatggcactg
4681	aagattttct	tcatttttat	gactgcatag	cattccatgg	agtatatgta	ccacattttc
4741	tttatccaat	tcactgttgg	tgggcacctc	ggtcaattcc	atgactttgc	tgttgtgaat
4801	agtactgcaa	tgaacatgtg	agtgcattgt	tcttttttga	ggaataattt	gttctctttt
4861	ggatatatac	ccagtaatgg	ggttgctggg	ccaaatggta	gttctgtttt	aagttctttg
4921	agaaatctcc	aaactgcttt	ccacagaggc	tgaactaatt	gacattccca	ctgccatgca
4981	tgagcattcc	cttttctcct	cagctccacc	aacatctggt	gctttctgac	tttttgataa
5041	tagccattct	gatgtgtgag	atggtagccc	attgggggtt	cttttttttt	ttttaagaca
5101	gagtctcact	ctgtcaccta	ggctgtggca	caatgttggc	tcgctgcaac	ctctgcctcc
5161	tgggttcaag	tgattctcct	acctcagcct	actgagaagc	taggggttaca	ggcaccctgc
5221	accacaccca	gctaattttg	gtattttttg	tagagacagg	gtttagccat	attggcaagg
5281	ctggctctca	actcctgacc	tcagggtgacc	cacctgcctc	ggcttcccaa	agtgtctggg
5341	ttgcatgcgt	tagctaccat	gggtgggttt	tgacttgcat	ttctctgatg	attagtaatg
5401	atgatccttt	tttcatacat	ttgttgggca	cttgtatgtc	ttcttttgag	aagtgtctgt
5461	tcatatcttt	tgccattttt	tcaatggggg	tgttttttcc	ttgtccagtt	gtttaagtta
5521	tttatagatt	ctggatatta	gtccttttgt	gggtgcataa	tttgcaata	ttttatctca
5581	ttctgtagg	tatctattta	atctgttgat	agtgtctttt	cttgtagaca	agttgttccag
5641	tttaattagg	tctcacttgt	caatttctgt	ttttgttgta	attgcttttg	aggacttaat
5701	cataaattct	ttcccaaggc	ccatgtccag	aatgggtgtt	ctgagatttt	cttctaggat
5761	tcttttactt	caaggtctta	tatttaaate	tttaatccat	ctggagttaa	tttttgtatg
5821	tggcaaaagt	taggtgtctt	gttttatttt	tctgcatatg	gctagtccag	tatcccagga
5881	ccattcattc	actaggaggt	cctttcccca	ttgtttactt	ttggcaactt	tgtcaaagat
5941	tagatggctg	taagtgtgca	gatttatttc	tcagctctct	attctgttca	actgggtgag
6001	gtatctgttt	tcgtactagc	accatgctgt	tttggttact	gtagtcttat	tagtatagtt
6061	tgaagccagg	taatgtgatg	cctctggcct	tgttcttttt	gcttaggatt	gctttttggg
6121	ctctctgttg	ttgtgtttcc	atatgaattt	taggacactt	ttttccaatt	ctataaaaaa
6181	atgacattgg	tagtttggtg	ataatagcat	tgaatctgta	gatagattgc	tttgggcagt
6241	atggccattt	taatgatatt	gattcttcca	atccctgagc	atggaatgtt	tttccattta
6301	tttgtgtcct	ctctgatttc	tttttagcag	gttttatagt	tctccttgta	gagatctttc
6361	acctccttgg	ttagctgttt	tcttaggtat	tttaattttt	tgggcctttg	taagtgggat
6421	tgaagccttg	aattgggtct	tagcctgaat	gttattgggt	tatagaaata	ctactaattt
6481	ttgccatcca	ttttgtatcc	tgaaacgtcc	ctgagtcatt	tgttaattcc	cagaggcttt
6541	gtggagctct	taggttttct	atttttagaa	tctattcttc	ccaaagagaa	atactttccc

FIGURE 2 (cont.'d)

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6601 ctctcttttc ctaatcggac ccctttattt attcctttgc ccaaggcttg gaaagccctt
6661 ccatactttt ttaaaaagaa cgtggaaaaa ggcccccttc ttattctcgt ttaaaggaac
6721 cttccatttt cgctgtcaaa tggnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
6781 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
6841 nnntttgttg ggaatatccg gtgcttattc ctcttcagga gttttattct tccaaaaatg
6901 cagcttttca ttctctctcg tttttcttct tgtgccaaat gcctccagcc tttccatggt
6961 ggtgcggtaa gctagacatt tttagtttgt agtgattggt ttctgtttgt tttgtatggt
7021 tttgtgccca tagtcacttc tgtaatgttc gtttctgagt ttcccttggg gggattaacc
7081 tgccactgaa gtgtcagctt ccctgtcatg ggactgtcct tggaatgaca ggttttcctt
7141 ccaccatagg atctgccact gtgaaggaga tgatgagagc cccctgatca cccctgccca
7201 ctgcacagga agcctccact tctgtcacca ggctgctg cagcagtgga tcaagagctc
7261 cgacacgcgc tgctgcgagc tctgcaagta tgagttcatc atggagacca agctgaagcc
7321 actgagaaaa gtacgtggga ggaagggatg cttcacctt cctgaaacca gtgaccccca
7381 gaaagctggt gtctcagatc atgaggtcat ggcttgctg cgttcatttc cttaaaaagc
7441 tggggtggtt gcttacattt gcattgtaga gattgttggt tctggtgctg attttcaagt
7501 ccctcttctc aggaagaagc tctttctgac cattcataat ccttcttttc ccttcaaagt
7561 aagactgctt gcttgctggt gtcagtcctc tggcctttga ctacagactg tttgtgacat
7621 atcttagcac ctaattttat acatattaac tgttgacgtc ctgcttctct gattaggact
7681 gtctgttgga gattagtatc tccccagcac ccagcacagt gtagcataca gtaaatatat
7741 ttgtatacac ccatgataac tatttgctgg atgggagtgt gagtaggttg atagggaaaa
7801 gaaaggaagc acaaacgttg cgtgatgtgc aactgtcttc agaaaggacc cacaggcatt
7861 gcatgacacg cagctgtctg gaggcccatg tcaactgtctc ctctgagagg agctttgtcc
7921 gccacactgg ctctctgttt aaattttgac tgtttcatat atctctctag atgccagca
7981 caaaaggttt tgtctggaag aataaaaaaac tgttctctatc tcagaacatt aatatataaa
8041 ttgcaagata agtcacataa tcaaatacta gccaatataa tgctaaatgg tgtgctggta
8101 gagcataaca gtcatcagaa aaaggaaatg ctcatatga gctagagtgc tggggaagtg
8161 gagcgatggt agcctcatag ggtgtttggg ttttagagca gttcttgaag gatcactagg
8221 atttgagggc agagtgcagg gagtttagag aggtcaggct gtctgtggag taaagcatac
8281 cctagaaagg tgaaggtgaa cattgacagg gtgtcaagct acgtgcgttg taggaagttag
8341 cagggacatg ggggcactga ggcactgaga ctgtattata ggtaggaaga ccagggaact
8401 tgctagtgtg taaaatocca gcagaaaaaca accagattta gagaaggctt gtgcaaaactg
8461 cttaaaaaaa tgttttgccc agtagaaacc ttgtaattta ttgggtgctt actctatgct
8521 aatctctcaa catgggaagt ccttgaggct ctattttcaa ctaccctgca tagactcctc
8581 tggaaagagg ctgtgactag ggttgccaaa ggatatgtgc agagtgttga cacattgttc
8641 tttctctcta cctttatgtg tttctcctg attcggaac cagtaaatga aaaagaaagt
8701 ctggctattt ggagtaaatt aatgagctcc tagaggagat gggactagca gagtctgctt
8761 gtaccaggaa ctcttagcgt cgatttcgag ctgttgctgc caaagtagca aggaccaaag
8821 agtgagcgtc ttctgccatt caccttcaca atgtagtgtg acccatctgc tagtgtgttg
8881 tggcatcctc aacctcttct ttccgctcgt ccattgccagt cagcacatca gggagactta
8941 aaacgtagta cctgggtcct gggccaacat actgttttca ttaggactga aatcatagaa
9001 ttctttatca ggccatctta tgtctgcttg caagaataag cagacaaggg gatttttgat
9061 ggtagtcttg cattoatctt gatcctggct tcttttcatt gcatagaaag ttggctgcac
9121 ctggtacctg gttgaagcca agtggtttta ggagaacaat acttggggga atgcatctag
9181 tttgggaagg gagaagtggg gtggaaagcc aatcttacct acctacaatg ctctcacccc
9241 accggagccc ttccccagaa gcctgagcct cacactctgt gttgtcttct tagtgggaga
9301 agttgcagat gacgtccagc gagcgagga agatcatgtg ctcagtga ca tccacgtca
9361 ttgccatcac atgtgtggtc tggctcctgt atgtgtcat tgaccgtact gctgaggaga
9421 tcaagcaggg gcaggcaaca ggtgagttct caggctggag caagctcagc atgggggccc
9481 ggatagctca caggagtcct ggggtcagag gattttccag ttagccaaaa acgtctgggt
9541 ttccggagga gggacatcag ttaggagcca ctagcctcct ttttggcatt tcttttgctg
9601 tgggtgtagt ttttgaacc cagtcaggag agttcatatt ctggagcatg agaatctcctg
9661 caaactacat cctataaaa caggaagttag ctggacactg tcttccactc tcttttgact
9721 gagcaacatt ggatgagttg ggaatccatt ggtcagtggt gcaggcttgt ggtcccaga
9781 tacttgagcc tgagggatgg aggattgctg aggtcagga gttcaaggct gtagtgtgcc
9841 atgatcacac ctgtgaatag ccactgcact ccagcgtggg caacatagca agactccatc

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FIGURE 2 (cont.'d)

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9901 tcttaaaaaa caacaacaac aacaaaggtc ttcaccaggg atctgcctag gtcagcgagg
9961 tggttcatca agannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
10021 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnggagtgt
10081 acttcacccc gtggtgaaga tgcggcacag actggcggtt cctacggcgc cttcactgga
10141 aagcgccctt gtggtcctgg ggagaggcg gctccatccg ccacccttcc cggagctgcc
10201 cccgcccatt ctcatgggag gaaatcgag ggcgtgtgag ccccgaccc ctcgccccca
10261 cctctgccag gacggcgcg atttctgcac tgtcccgccc cactgggaag gaaactctct
10321 ttctcaattt cctttaatga ggacattgtc ttttcagccc tgccaccccc tgcaatcgtc
10381 ttccaggctg caaacagcga gtggggaggt gaacacatca gcttttctc cctccacacc
10441 accaggaaat ttgcgaaacc acttggtctc cggcggcctg gcctcgccac acctgtgccc
10501 acagtctctc tccgctgcag cccctgtgct cattctccag gccccacgta cctctgcctg
10561 ggcccagtaa gacctggtca gatggcccc ggctgcaaag ccttcctggg ccccatcaga
10621 gaggacgccc aggtgaagcg aggggtccct gccaccctg caagcgcagg ggcccttcca
10681 agagtgcagc cctaggccgg tgtgtgatgg tggagacgag gtcccagagg gcctgaacca
10741 agaattggaga agacaaaggc tgtctttagg gagaaacttc cctgaggggc tgatgtgtgc
10801 gatccattt taatctcaca accctgggga ggagctgggg ccgggtctca ttgttcattt
10861 gaggacaccg aggtcaggg aacttagacg actttcctag ggtcccccca acccccaccg
10921 gccaggggcc ctctcccagg caccctcat cccacacag gctcctctaa gctgttctct
10981 tgtggtccag ccccttggc tcagctcctc aaatacaggg acacctcttc tctccccgc
11041 agaactcaag ggtctccatc cactgtgcca gcacagaggg ggtgctcaga gtggggctaa
11101 gcttactgtc cagcctgctg ggccaggagg ggcagaaggg cccctctcag gattccttcg
11161 ctctgtcctt gccaataggc catcactcaa ggggctaata acaggacgat gtggagaaac
11221 gtgggctgca gcacttctgg ggccaaggcg aggggtggcg gcactgggga gtacagggga
11281 ggggacctca ctggggccag aggcttctag aagcttctgc aagaaggggc cctcaccca
11341 tgtcttgccc aagaagtggg gagggtgggt gtggcaaagg aaacagctag gtcagagaca
11401 agagatgtc tgcaaagccc tgetggtccc ccacggtgga gcatcctatg catgtaggac
11461 ctgagagatg gcagggcgcg gtgcgtccct atggatgtat ctccatttct ggcagagac
11521 atctgggctc tcacctgcaa ttgagccaac caagaaatta tatttacttt ttagagcgag
11581 cctccaacaa attatacaag cacttgagaa taagccctcc cactgtcttg agagatggag
11641 cccaggagg gacttgaaa gatctgaaa cctcactca ggagagatgg tggagctggg
11701 agaggaggag gcactccctg ggaccagca gatggacttg actcagcaaa tagatgcaac
11761 catatgtggg ggggtggggag gccagaaaag gcattacagg ccagtgttct taatcctggc
11821 tatacactgg aatccaccag tagccctaaa atataactgt gctggacttc ccctggttcc
11881 acagtttgtg cagagtgggc agcatggagt ctgtaacact aaacacacag gattgagaac
11941 catatgtcta ggctgttggt agccatgatg gggatacatg aaaaggaggt gcacagttac
12001 cttctatacc acaggatagg tgctcattaa accctgttaa aatggactgt gacccagctg
12061 gcactcagg gcactcagg gccagggtgg tcacactttc attttaatag gatttaataga
12121 gcacctattc tgtgacagct gctaagatac agaggctcct gagatacaga gatgacaatg
12181 accttcagaa acaactgaaca gagataagaa aggcacagtc tggccttcac tccaccatta
12241 attcctccat ccatccatcc atccatctat ccatccatct ctctgtctat acttccatcc
12301 atccaccatc cattcaccat ccaccatca atccatccac ccatctatcc atccatccat
12361 ctactatctt gtcattccat catccatcca ccatccatga atccatccat ccgtatatca
12421 atttctcatc tatctctcca tccatcccc atccacctct tcttccatcc ttctctcttc
12481 ctttcatcca tccattcatc atccatccct caacctatcc atctgcctgt ccatoggttt
12541 gattgtccat ctgtccagta ttctccatt cctccaaaac tgggtggcag tactctccac
12601 ctactacctt caccatcctt attattccct ccaaactgtc tctttcacia gggccttctg
12661 tctgcctgtt cccatcctgg tctgggacct atccactaa agctacatgg ctttgatcaa
12721 caatcccaat cccagagtag ggggaaggaa gtgagccct aactgccgtg atgtttccag
12781 ggagatggtg gatactgctg cattactaat ccagatgtta ggttttaatt tttctctcca
12841 gtagacccca attgtggtag gagaaaaatg cccagcttt ggacacaaac agacctggat
12901 tcaaatcctg gttttgccaa tttctgccta aatgacttta ggcaaactcc ttgaccttga
12961 ccccttgagg actcagtttc ctacactaga aatggccaat aatattattt acctcccagg
13021 atggccatga agcttaaaat agattattgt acccccaaaa acaccgacac aatgtttaga
13081 aataaataat attattttaa gctttgaagt ctggtgggt tctcagcctc gtcacttgc
13141 tgggtgtgca gactcaaagc cagggtccca cctcataga ctgtcatctg tgggtgtggg

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FIGURE 2 (cont.'d)

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13201 gttggcctgg cactagcagg tgctaagtct cctcagagga ttctaggtgt aaaaggaaat
13261 gaaaatcttt ggaccccaat tcactctgcc aaaagggaaa aattaagctg aaagctgagt
13321 gatgcaagaa acgaagatag ctacagataa aaggtgaaaa cctccacagg tagctcttgg
13381 tgttcacctt atcaagtgtc gatgtactaa ggcgaagagg aatacataac tgactattcc
13441 cctacctgct ccttttcttt tgcaacatgt ggattcagta acgtgaccat gccctccctt
13501 tcttccttcc agcctgttct cctttaaata ttgatgccct taaagacatc ttcggaaaaa
13561 ggcacagtcc accaactgtt cctgtggatt tgtgttccct ttttccgtgt atgtcttttt
13621 ttttattatt ataactttaa ttctaggata catgtgcaca acgtgcagga ttgttacata
13681 tgtatacatg tgccatgttg gtgtgtctgca cccattaact cctaattagg tatactctct
13741 aatgctatcc cccccccctc tccccacccc atgacaggcc ctggtgtgtg atgttccctt
13801 tcctgtgtcc aagtgttctc attgttcaat tcccacctat gagtggagaac atgcgggtgtt
13861 tggttttttg tccttgccat agtttgctga gaataatggg ttccagcttc atccatgtcc
13921 ctgcaaagga cattaactca tcctttttta tggctgcata gtattccata gtgcataatg
13981 gccacatttt cttaatccag tctatcggtg atggacattt ggggttggtt caagtcctttg
14041 ctatttgtga tagtgccaca ataaacatac gtgtgcatgt gtctttatag cagcatgatt
14101 tataatcctt tgggtatata cccgataatg ggatggctgg gtcaaagtgt atttctagtt
14161 ctagatcctt gaggaatcgt cacactgtct tccacaatgg ttgaactagt ttacagtccc
14221 accaacagtg taaaagtgtt cctacttctc cacatcctct ccagcacctg ttgtttcctg
14281 actttttaat gattgccatt ctaactgggt taagatggta tctcattgtg gttttgattt
14341 gcatttctct gatggccagt gatgatgagc atttcttcat gtgtctattg gctgcagtaa
14401 tgtcttcttt tgagaagtgt ctgctcatat cctttgcccc ctttttgatg gggttgtttt
14461 tttcttgtaa gtttgtttga gtgttttcta gattctggat atcagccttt tgtcagctga
14521 gtgattgca aaattttttt cccattctgt aggttgccctg ttactctga tggtagtttc
14581 ttttgcgtgt cagaagctct ttagtttaat tagatcccat ttgtccattt tggcttttgt
14641 tgccattgct tttgggtgtt tagacatgaa gtccttgccc atgcctatgt cctgaatggg
14701 attgcctagg ttttcttcta gggtttttat ggtttttagg ctaacattta agtatttaat
14761 ccatcttgaa ttaatttttg tataagtggt aaggaaggga tccagcttca gctttctaca
14821 tatggctagc cagtcttcac ccggggctga aggtaccgct tnnnnnnnnnn nnnnnnnnnn
14881 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
14941 nnnnnnnnnn nnnnnnnnnn nacaattgaga acacatggac acgggttggg ggggtatcac
15001 acactggggc ctgttgggct atggggggct ggggagggat agcattaggg gaaataccta
15061 atgtagatga cagggtgatg ggtgcaacaa accaccatgg cacatgtata tctatgtaac
15121 aaacctgcac attctgcaca tgtaccccag aatttaaagt ataataagaa aaataaaaat
15181 aaataagtta aaagagatta aaaaaataaa agagaacatt tgccacattc agtctttcta
15241 gatgaaaaga ggttgctgac atatgataga attagaaaat cacacatctt gtaaatctct
15301 atttgtttta aaagaaatca tacaaattag atgttttttg gagatgactt tttaaaatag
15361 agtcgttaga tcacctctgt aagggatatg tctatatctg ttcagtgggt taggggacat
15421 ggatctggaa agoctgagaa gaaaagaag gttctatacc agacttgtga tatttagaca
15481 ttttcatatt ctatccattg ttttgtgtgc attttattcc tcaactattg atatatagtt
15541 gacaatgcta aacttttttg tgtattcttt ctatgtgttc cgaatgccta atatatgtca
15601 aaattagcgg tagtaaaata atattttgta aatatctttt tgctaaaatt catatgaaat
15661 gttgtttttg gaggggaatg gccaaactac ctggttagta atactcatcg tgtttgtgtc
15721 ctggttcagg ggaggaggaa ggaggggaaa gtgcagagag ctctatgccg ctgtgtttac
15781 agtgaggcaa gattaacat tatctcttat gtctgtgcat tttgttttac ttatctgttt
15841 atgtagtgta tataaaggac aaacgagtc taatttacaa catctagtct ttttagatgt
15901 taaagagggt gccagtgtat aacaaaagta gagttagtaa actaatatat tttgtatatt
15961 ttgtttttaa attcctagga aagattgtct tctatcttt gagcattctt gcgcaactgag
16021 ttgatggaga tgggagggat tctaagctag gatgttctta tttggaagac tctttcaaat
16081 tataactatg gttacatgta tgcagtttat tcgagactgc tgtgtatata gtggacaaat
16141 taactcctta cttgaaacac ctagtttatc tagatgttta gaagtgcctg atgtacgtta
16201 aatgtagagg taataaaaata ccactttgta aatatctttt tgctaaaatt cataggaaat
16261 actgtctttt agaaatttta ttgttaagcc acctttgtga gcagtatagt actgtctata
16321 cttgttcaat ggttttagag aggtgggagg gaagaaaaat atgtgactga cttatttcac
16381 taagcctaag gtctttaagt ttcattcatg ttgtggcatg tgtcagaatt tccttccctt
16441 ttaaagctga ataattttgc attgtataga tatattacct tttatttato catttatcca

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FIGURE 2 (cont.'d)

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16501 tcaatagaaa cttgggttgc ttccatattt tagctatcat gaatattgct gccatcaaca
16561 tgttgagttc ctgtattcaa ctctttgggt aatacccaga agtgaaattg ctgaataagt
16621 atggtaattc tctgttaaatt ttttgaggag ctgctgattc atacttttac gtataaaata
16681 ttagacctta aatgtattat gtaaaaacac taagtatttt taacattcta gagtaaagaa
16741 ggtgtttctt agcaagacag aaaagctgaa accctcaata gaaaagcctt gttaattgta
16801 tcacataaaa tattcaaaat ttctgaacac acagacacac acgcactaac gaaaagctat
16861 ttacaacttg tggtagatga agaaataatt tottaacata gcaagaaccc aggcaaatga
16921 ttaagaaaaa gaataatcat acaaatttaa tacatgtgag aagctgttca gccctttcca
16981 ttaattaaag aagtaaaata taaaacaaaa catataattt ttcacttagc agagatgaaa
17041 taccaaaaaca gatgggtata ggtgtggaac atacttcctt ggttgacagt tagccaatat
17101 ctattaaaaat cccttgccac agtaatttca gttctagaca tttgtcttat attactgtat
17161 ttattctgtc ctgtaaccat aaattccaca gctgcctagt gatggttcta tatttaaattg
17221 gaatgcttac tctcagtatt gttttttctt ttgagatgga gtcttgttct gttgccaggc
17281 tggagtgcag tgccatgac tcagctcact gcaacctoca cctcccagggt tcaagtgatt
17341 ctcttgccctc agcctcccga gtagctagga ctacagggtg gcaccaccac gccagctaa
17401 tttttgtatt tttagtagag atggagtttc acctgtgttg ccagtatggt ctcgatctct
17461 tgacctcatg atctgccac cttggcctcc caaagtgtct tgattacagg tgtgagccac
17521 gacaccagc cagtattttt ttttttaaac cacagcttct tcattttgag tcatctctaa
17581 atagctgcaa tttactataa cttagggttt acaattttta aaattgtgta tgttaaggta
17641 tccacatgat gtttgatata cttcttttga cataaatata cacaatgaag tgattactac
17701 agccaaataa tgattaccat acccatcatt gctagcgttt agaaagacaa ctgattttta
17761 tgtgctgata ttgtaccctg caaccttact gaatttacta aatctagtag ttttttggtg
17821 catcctttgg gattttctat taacagaatc atgcctctcg caaatgtaag taatttagct
17881 gcttcttttt aaatatgtat gcctcttatg tctttttctt ggctatgttc ttttctctgg
17941 ctagaacttc tagtacaatg tccagtgtca gtgttgaaaa tgggcatcct tgtgtgttc
18001 ctgattttag gagtaaagct tacagttttt ctaccctga gtatgatttt agttgtgaga
18061 ttttcctata tgccctttat catgctaaga aagttccctt ttatttttag ttgctgattt
18121 tttaaaatta tgaaagggca ttttaatttt tcaaataact ttttctgtgt ctgttgagag
18181 tttggccatt tttttctat tgaaatgggt tattatggta gctgattttt ggatgtgaaa
18241 ccaaccttgt gtccttgga taaatcccat gtaatcatgg tgtataattc tttctatgta
18301 ttgctggatt tggtttgcta gtatttttgt gggaaacttt gtgcccataa gataagaggt
18361 attgatctat ggttttcttt tcoctgtgat tctttatttg gtttttgtgt cagggaataa
18421 gtggcttcat aaaatgttca agaagtgtac cctcctcctc tttttgttg aagagtgtga
18481 aaaattggta ttatcaaatg tttagtagaa ttcaccagtg aagccatttg cttttctttt
18541 tgggtagttt ttgattactg attcattctc ttaatttgtt ttaggtctat tcagattgtc
18601 tgtttcttct tgagtcagtc ttggtagtgt tgtctttctt gaaatttttt catttcactt
18661 aaattatctt atttgtcagt gtacaattat ttttgggtatt cctttataat cctttttatt
18721 tctttaatgt cagtagtaat gtctcttctt ttattttctga ttctatagtt tgagttttct
18781 ctctctttc cctgatgaaa ctgaagtttt ttccatttta ttgatttttt tcaaacgatc
18841 aaattatttc attaatttgt gctgttatca ttatttcctt ccttctgctt acttaaat
18901 agtttcatat tttttgtaag tgtcttaagg tagaatttta agttattgat ttaagaactt
18961 tcttaataca agtgtttaca gctgttgata ttaoctaat tacttcttta gctgcatcac
19021 aattgttttg gtatgttgtc ttcattatta ttctgtctaaa aatattatct aatttctgtc
19081 ttgatttctt ctttgactca tgaattgttt tagagtggaa atttcatttt aaatttccaa
19141 atatttgatga atttcccaaa tttccoctgt tgttgatttc taattttatt ccattgtggt
19201 taataacata ctttgcatca tttctatcct tcaaatttat tgagggtgtg tttatggcct
19261 aatatgtggt ctatcttcta gaatgttcca tgctcacttg acatgaatgt atactttgtt
19321 gttgttgta agtagaatgt tccatagtc ttgaggtcta tttggtttgt agtattgtc
19381 aagtcctctt tttccttgtt gtcogtcca gttgttctat ccatttttga acgtgtagta
19441 ttgaagtcct tgactatttc tgttgactcg gttgacttgt ctatttcttt cttttctcag
19501 gtctgttttt gtttcattta ttttgggtgt tcatatata aggtgcatat atgttgataa
19561 cagttatatc ttctaattgg atggattcct ttgtaattac aaaaggccac tctatctcta
19621 gtaacaattt ttgttttaaa gtctatttgt ctgatatcag tgtactgact ccagtgtttt
19681 tgtggttgct gtttgcataa tatatttttc ctgttctttt actttcattc tgtgtcttgc
19741 aatcaaaatt gtgttttctc cagacaatat atacttcatg ttttcttatc caataataca

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FIGURE 2 (cont.'d)

19801	cctttgcctt	ttgattgcat	tgttttattcc	attcacactg	catattatta	tttagtggga
19861	tttatgtctg	tcatttttagt	tcttttttgt	ttttgttttg	agacagaatc	ttgctctgtc
19921	acccaggccg	gagtgcagtg	gcgtgatctc	ggctcactgc	aagctccaac	tcccgggttc
19981	aggccattct	cttgccctcag	cctcccaagt	agctgggact	acaggtgccc	accaccactc
20041	gtggctaatt	ttttgtattt	ttagtgagga	ctgggtttca	cogtgtagc	caagatggtc
20101	tcgatctcct	gacctcgtga	tctgcccacc	tcggcctccc	aaagtgttgg	gattacaggc
20161	atgagccacc	gcacgcccg	attttttgtt	ttttatatgt	atcatgtctt	tggtgttctt
20221	gttttgtctt	tacttctttc	tatttctattg	aattaatatt	ttctaataata	gtatttaagt
20281	tttattaata	attttatcac	tgtattttta	tttttagtgg	tttctctagg	attttctgta
20341	tatatcttat	cagtatgagt	ttcagattca	cactagctta	attccaagta	tatgtagaaa
20401	tgttactcat	gtagaactta	attctcttgc	tcttttgtgg	ttatttttatt	tatattatat
20461	caattaatgt	tacaaagata	tacattgttt	aaattattat	tggtgctatt	attagcatac
20521	ataacaccca	catattaaaa	ttgtatatat	tgcataatg	tattatagaa	ttgtatatat
20581	tatagggcc	atagtatat	gtatacatgt	tattttatat	aattgttttt	aaaatgagtt
20641	aagaaaaaag	aaaaatgcat	ttctactgtc	tattatagaa	aaataattac	atcatactga
20701	acgtcttcac	cnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
20761	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	ngctctaata
20821	aatttgccgg	cgctaatacg	actcactata	gggagaggat	ccgcggaatt	cctaaaagaa
20881	ttgctgagac	aaagtatatg	tgcccttgtc	atccctgagg	cagttgtcat	cctgtggagg
20941	tttaccattt	gctctcccac	cagcaatgta	taagcatacc	tgcttcccaa	cacttccgcc
21001	aacacatatt	atttgattaa	ttttcttggc	tgataatgg	atctcattgt	agttttaatt
21061	tgtatttctc	attgtgagag	aaatgaagca	tcttttcatg	ttttgagagc	catctgtgca
21121	tcttttccca	ttgtttctgt	taagtcattg	atttgcagta	ctgtaatttg	tgatgagttg
21181	taaacatgag	ctcttcttgc	ctcttaacca	tccttatcca	gcctgtcttc	acgttctctc
21241	ttgcctaaaa	acaagctcac	tcaaacagat	cattcctgtg	gccctctccc	ttttgaaata
21301	aatcagatgg	gcaaatttgc	ttttgttagg	ggcctgagac	ccaaatgttt	aaaagtagct
21361	tagctgatga	gtgaaaagga	ggcccagttg	ggggttgac	agaaaatgag	gggcgtgggt
21421	aatagaggag	gctgggcagt	aacctggcag	aaggcgccag	aggccaagga	aggtgcgctg
21481	gtgtcctgca	gtgagaagga	tgtgtgcact	atcaactggg	taaacacact	gctatagctg
21541	ctccagcgac	agcaggcact	ctcagaagg	aactgagaaa	aggggaatgc	cagtttctgc
21601	caaggatata	tggaaaagtt	ttttttcccc	gatgttctt	tggcaacctt	gttaaaatca
21661	tttaaatgg	tgaatttgat	aacaaagcca	gccactaaaa	gacttgatg	tagcaaaaca
21721	aattgtcaaa	aagtatttat	catttctaag	aaataaaata	aactgggatt	taggcttgga
21781	tagaaatcca	gagggttgtt	ttggcataat	taattacaac	atctgaagaa	gggaggattt
21841	ttacaagaat	tttttttttt	gtagtgaat	tgctttatat	tccttttcat	gactggagag
21901	tctgtcattt	ggcaaccgcg	aaagaacttc	aggaacagag	ggcctaagtt	ttcttgacac
21961	atttggattt	ttgcatgatg	aacatttgca	cttttattag	taattgtcga	gtcgtgtgtg
22021	gtctgatcct	atggagagga	gagtgtaggt	gtnttctctg	gagctagtac	ntgccccogn
22081	gctcacacgt	gccacactgc	ctgctgcttt	cangaaagag	caggacggct	ggtcctgtcc
22141	catctagtga	ggctcctgtcc	catctagtaa	ggttctgtcc	tcagagctcc	taagagggga
22201	ttgctggcct	ttgattacac	tggcttccag	aactctgacca	tggaaaccatt	atttgaagct
22261	gtcagcttca	ttttgttgtt	gatcaggcca	gtcttttagg	tccttgttgg	ttgatagatt
22321	tctctcaggt	ctatagcagc	aacaaataaa	gctctttaaa	attattttct	tgaccattct
22381	gcctatggat	tggttctgac	ctttgaaatg	tttgctgtcc	tttagatcgt	gacagaagga
22441	gcctcttctg	ggagctgtga	agaccccaca	gatctcactg	gttttcttgc	ttttattgga
22501	agagtttagca	tttggtgaag	tttatattta	tgtaaaataa	caataagtag	attttaaaat
22561	ttttctttta	attctgtgat	ctaataagaa	gagagactct	ttctctgtca	ttgggaggct
22621	tgatgaggat	cggacatacc	tgctgagagt	atcctgtaat	gttttcataa	gattggaaat
22681	ggtgaaatga	gagcagaaat	gtaggcagag	gatgccaacg	ctgtttccta	tttctaagt
22741	aaaactgagc	agggcagaat	ctccccagcc	ctgccagaac	tccttctctc	cttgggtcog
22801	ctgtcaactgt	catgctggcc	ttgacatctg	ctacaagtgc	acacacatgg	ggaaccacac
22861	aggggaagtga	acacatgtcc	tgacgtgtgt	gtgtgcctgg	tgtggctgct	tccttgatcc
22921	aggctttgtt	ttgttacgag	gctctgccct	cctaccttca	ggccttgctc	ctcatcatgg
22981	gcatgcaagg	atggaatcgt	taccccagag	tacacttttt	gacttggaat	acttgtagtt
23041	tagtactgga	gttcagaact	ttaatttccc	atcagaaacc	tgcttcccg	accaggaca

FIGURE 2 (cont.'d)

23101 ctgaccttga ttgggcacga tttccagat aagaccttac ctctcccaa cagggtttgc
23161 cttcccttca gaatacagga aagtacacgt ggttccaaga ggaccatgct cttactaaga
23221 taaaagggag gaggggtgact aggtactttc ctctgctgcc atcccttgaa ggaagggggc
23281 ttcccttcaat gcctcatcag ttccaggag tatgcttgac ccagcaacac agaggaagaa
23341 gtgacctcat agcaatgagg ggcaagcatg tggatattgc tgggtatttc ttccctcaaag
23401 tctacctggg gacaggtgat gaagacgctt acttctctgc aatacacctg gatcaggctt
23461 tgggtcttcat gacacatttt agccttgctt atgtgtgttg aacagagctg gtcactctca
23521 gaaataaaaag aagagagcaa taagtacagg aaggctttca gtcccagaat agtggttagga
23581 ctaaagtgtca gagaacaggg ggactgtagg agtttgggga ccttagcatg gataccctct
23641 caatctgctc ccctgtggta taaacagtaa agcccattgt actaaaaggc cttgagtgtc
23701 tgtctctggg gcagggtggag ccagtgtagg gtgccccgag aggaggatgc tggagagggg
23761 acagtgtcta aggcagttgg agaaaaagga caatggctta tgcagtcagg cctagaagat
23821 gcaagggatg tcacagcata gtgtccacag gcatccctag atgtctttca ttttgtttca
23881 ggaagaatat tgacaaagggt agtgatggga gggttatttc aaggatgcta ttttcatgtg
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24001 ctcatgccca tatgcacatt cagttagaaa ataaatgtag attcttttgt gaattcgaag
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24121 cttcttggat cttgtttctt cagggtggact tgcattaaag tgctgttgaa tctctgcaat
24181 gggagtggga gcagccatgc gatgggtgcc ttaatccgag tgccatcctg gctctctcca
24241 ggctgcttca tttgctgtga ggggtagggg gaggaggagt ttccaggcaa tggccttatc
24301 tgttctgggtg gttgaccaag ggtcgggggt cccaaagggt gagttccagg atgagagtgc
24361 acccttgggg atggtactta gaaagagtgg ggactaggcc tcagccaggg aatggtgggc
24421 cagggtggag ctccctttgta tcaaggagtt agggccaagg gccatgcagg tgggcctgca
24481 gaagtggggt ggtgatattg cctttctgggt gataacagac tcgtggcact gttttcctgg
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26161 cctcaagata cgtgtctcag aactaacagg tttcatcata aagaaaaaag aacctgaac
26221 caciaaacctc ttggcaattc caaacattct tgtgtttcat gcctttctgc cggctcgtca
26281 actgcctcag aggtggaagc tggcaagggg ggcaaggccc gcctgctgct ggaagagaag
26341 gcggatgggt aggccacgct ccgaagccgg caactgctcc agtacctgtt ctcaactctg

FIGURE 2 (cont.'d)

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26461	ctgcacactg	ccaagtccctc	cagcgggctg	gcagggagta	tgggcttctg	ctctgacgag
26521	atgggagacg	acgatgtctt	tgaggacagc	acatctgcaa	aactgaagag	taggggttctg
26581	cgggcgcccc	tctgctccac	ggaaaaggac	agcgacctgg	attgtccttc	tcccttctct
26641	gaaaaattac	cccccatatc	tcccggtgcc	acgtcagggg	atgtctgcag	gttgggttgc
26701	caggaagtgc	cattctagcc	atctctgtct	gcacagga	cctcctcttg	ctttagtatg
26761	tgaagtttca	ggaaaatgaa	gtaaatggaa	gttgtaacca	gttggtgggtt	gatggtttct
26821	tccagaagaa	tggagtatca	atctcgtttg	aaaaacttaa	tttttatgat	gtgagtccca
26881	agatagtttt	acaaatgata	aaagagggaag	aagctggctg	ggcgagtggt	ctcacgcctg
26941	taatcccagc	actttgggag	gctgaggcgg	gtggatcacc	tgaggtcagg	agtttgagac
27001	cagcttggcc	aacgtggcga	aaccccgctc	ctactaaaaa	tacaaaaatt	agccgggctg
27061	ggtggcgggc	gcctgtaatc	ccagctactc	aggaggctga	ggcaggagaa	ttgcttgaac
27121	ccgggaggcg	gaggttgacg	tgagccaaga	ttgcgccatt	gcactccagc	ctgggcaaca
27181	agagtgaac	tctgtctaaa	aaaaaacaaa	acaaaacaaa	aaaaaaaaga	ggaagaagct
27241	acacatatta	aaggccaagc	gtatcgtttc	aaactaaaaa	taagtagact	ttgcataaag
27301	aaactggaag	aaagaaacta	gtatcttcag	ttttccagcc	tgatggtcca	gattttaagc
27361	attgttgcac	ctcccagcct	cttttttaac	ccttgcctcc	tacctacccc	caaaagggtg
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27481	acctatgtcc	catcctaact	ctgtttcccc	cctttatctt	cccttggtga	gcacccctgt
27541	ctggcctcca	taattcactt	tttgtcatga	ctcttggtgc	ctcctcattc	tgacctttct
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27661	tcactaaaaa	agcctgagag	cctggctcct	tccaggacga	gtgccccaac	ctgttctcta
27721	gctgctggaa	aagaccctc	tggttcttaa	aagcctgtta	agttccttca	ggctagtagc
27781	tacaccttgt	tgcatacttc	ccttggaata	gagagtgtct	tcaaattaat	ttctcactta
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28141	gctggagcgg	gcggagaccc	acgcgcgcgc	caatgtccc	gcgcgcgggc	tgctacacca
28201	gggcagcggc	gtagtgcgg	ggggcacaa	cccagccgc	ccggggcggc	gcgcggagaa
28261	ggagcgcaga	ccccgtgaac	acgcgcggag	accgtccgc	cgcccgctcg	cgccactgcc
28321	tactgccagg	ggcgcgcggt	gacgacaaaa	ccctcggtgc	gcccgcgctg	gcagtcgcgc
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28441	ggcgcgtggc	cccgggcgct	gaccactatc	attctccgcc	acacggacga	aggcaggagc
28501	accacgggcg	gcccgcgggc	cgcccgcctc	ggccaaagag	cccgcgccgc	agcgganann
28561	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
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28681	ggagagcaga	ccacgcggaa	gagcccgaga	gagaaaagcg	ggcaaccggc	cgggggggtc
28741	atttacaagg	gacgctgggc	acgaaggagg	ctggggcgaa	gatgagtcca	ggggttgggt
28801	tgagagcgct	gcgcagccgg	gctgagaaga	gaagctgacg	agtgaactcc	gacaagggac
28861	gggggagagg	gaacctgggg	gcaggcagag	gcctaggggg	tgggctctga	gggcagccac
28921	tcccaccggc	cctccccag	ccccgcaggc	cagccacatg	ccccgtgctc	cagacgaccc
28981	agctacatgg	atggcagcgt	cctgaagggg	gatgatcggt	agggagtggg	tgcgagggct
29041	cacgcctgta	atcccagtg	tcggggattc	ccgagcggga	ggatcgcttg	agcgggggag
29101	gtggaagctg	cagtgatctg	cgccactgaa	ctcccgcctg	ggcggcagag	tgagaccctg
29161	tttcaaaagg	caccagggtg	gtagggaagg	agcgatatcc	cccaggcaag	gaaggctgcg
29221	gagggggccag	gccaggagag	aagggccctg	agctcagtgg	acgggcaggg	tgctgtggga
29281	ggaagggagg	gacgtagcag	caggaggaag	ggtgaggacc	caggctgggg	atcgggagaa
29341	gtgatggcgg	aggaaagaga	ggccgggaaga	ggagggggcc	tgctggcctg	gcactggaaa
29401	gcaaagcgtg	ggtttgtata	tgggaagaag	accacatccc	ctcttatcgt	catcccaact
29461	cagaaacat	ttggccccaa	gtcaccaaa	cactcatagg	aaccactttt	cctgtgacac
29521	aagtaggatt	ctcccacttt	taacttccca	aatgtcacc	gaaagcctct	gaaatccttg
29581	gaaattttaa	aaataatccc	cttctattaa	ctgatgccta	taaaacatat	tgactttcat
29641	taaattttgt	tatgaaatca	gggatgtgtc	ccattgtaaa	ataaatttgt	ttggaaaatg

FIGURE 2 (cont.'d)

29701	taggggtgga	tcccatctaa	aatcagacg	aggetagaaa	atttcaattt	tatttgctaa
29761	ggtagcatca	tgttggttaa	aatgcatcat	aaaataagac	caagagttaa	tacaaagcat
29821	gaagtcattg	ttccctcaaa	aaaatgattt	gttctgtagt	caaattaatt	tggaaaacat
29881	tgcaaaactc	tcagcagtg	ttctcaaaag	atagcttgcg	tcagaatccc	ctggggccct
29941	tgctaaaatc	tggatggcta	cactccccgc	ctagagtggg	ttaaactcag	tgccccactg
30001	caggaaaact	aaacttggct	gaagtcaccg	aggaggcctt	ccccgttaaa	cctctggctg
30061	gcgacagctt	ggtttctctg	ccgctgcttc	tgagtaattc	tggcacgcag	ttcctcctag
30121	ccacctgctg	tacctggaag	ggggccagcc	ctcctcagca	ggctttgctc	ctgcccctga
30181	cagcacaact	gtggcgtaaa	aaatggaaaa	gctggtagca	gaaggaaaag	gcaggggagc
30241	agagggttag	tgaacctcaa	tggcctcatt	aaagcaaatt	gagaaaagag	gtttccttcc
30301	cagtgaggcg	ggacagtgc	gaaatgcggc	ccgtcctggg	agaagttagg	gcgagggggt
30361	gggggctcac	cgggcacatg	gccaacagct	ggtgccagc	ctgggccaca	gtttggcaca
30421	ggagaaagct	gaagatgcag	gagaaagcta	ggtcactgcc	cctaggccag	gtgatcaagg
30481	tggctgttac	ctgectgtgt	ggccttgaaa	aagcctgggt	ccctctctgg	cttgacaggt
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30841	accctctggc	actgggccat	cttcaggccc	tacagggtc	tcggggcctg	ctaggccctc
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31021	gggggaggaa	ggaggcagca	aggctgaaag	aagcttctct	gggtattcca	gtgctggct
31081	gctggctgta	gccatgggtg	gaccacagca	gcctccctgg	aagcaagcac	ctgtgtaaaa
31141	gccccctctt	ccccacaagg	ggctggatcc	aagtgaagaa	ggtaccagaa	ggactggaag
31201	atgatgctgg	tattattoga	cagctccagg	gtgctgtagc	actgagcacc	tactgtatgc
31261	agcccatcac	aaagccagcc	acactgccca	ggctgtgcca	tggcaacttc	cagcagtaca
31321	ccctctcggt	caoctgcagg	ctccttggtc	atcctgacac	atgaggagaa	aaagacagta
31381	ctcacaagg	cctctagcct	tgtggcccca	ggaccctctc	ctgagcatca	tggcctccta
31441	ggagaccag	ggtagccagg	acaaaggaga	gaagcatttg	ctaagctaag	aaaggatgga
31501	aggggattgc	tgttctgcct	ggatgcaccc	ctagacctgg	cagggcaggc	aggagagacc
31561	cccagtgctc	cttgcttata	ctagagtttc	ccccctgtgg	ttgctccagt	ttgctgcctt
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31861	ggctgcctcc	tcaggggtgg	gcaggaagg	gagccactgg	aggagtgcc	cgggcacagt
31921	cccctgcacc	aggtgaggtc	acctcttagt	ccatgaggcg	atgctgcagt	agccctctg
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32101	ctacagagga	aatgaacaga	gacagcatca	ctccagttag	ccctccagat	acaccccatg
32161	tgcgcagtaa	gagaatggca	tagtctattg	ggacagccac	atcaaaatac	cacagaccag
32221	atggcttaaa	cggcagatat	ttgtctctca	caggtccgga	ggctagaagt	ccaagattag
32281	ggtgccagcc	aatccacttg	ctggtgaggg	ccctcttccc	agcttgacag	tgtctctgtg
32341	ttcccacagc	atggtcacgt	ggcagagaga	gggggacagg	gcatgaataa	gccctcggtg
32401	ccttctctct	cttacgagga	tgctaattccc	atcacgggta	ccccaccctc	gtgacctcgt
32461	ctaaccctaa	tcacctccca	aaggccccat	ctcctaattg	catcacactg	ggggtcaggg
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32641	ggggcaacca	gagtcaaggc	tgaagagtgg	gcagtgattg	agcactgacg	gtggagaggc
32701	aacaggctat	cttggttaatc	tcagtctttt	gtgtgccaga	gagagaaact	gaggcacagt
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32821	ggaggaagcc	tgggaagtct	ctccccctct	ttccaccttt	cctggaccca	tcccacaccc
32881	tgcctcctcc	aggaagccct	ggggattgct	catacactca	catctcactc	cttagtacct
32941	gcagcctgca	ttctgaattt	agcaagctct	ggccttggtg	ttctattttc	ttgtcctgtg

FIGURE 2 (cont.'d)

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33001 cagtgagcat ttggaaactt ctctcagca ccaaacacgg agccatttag cagaaaatac
33061 atgagttttc aagtcaattg aactgttcat cgccccaaaa gccaggcaac acggtagagc
33121 agctggatct ctgttcgtag aagctttctc agggactggc ccaccgagtg ggggactgca
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33481 tcatcaaccg cttcatgcac atgttccagt cttcttggaa tgacttcgcc gactttgaga
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36181 cctgcaactgt ctctctctcg ctccatgtct caatcctctg cctctggtga ttttttctt
36241 aggagggttt ccttatgtgg aggtaaaaaa tgatcaccgg cagcttcaga tttaccttcc

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FIGURE 2 (cont.'d)

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36361	gcagatgtct	taggcoatec	tcgggcctca	ctgattctgt	gagccagtgc	ccacggccag
36421	gagaatggaa	tacactgacc	tagaggggac	agggactcta	gacaggcaaa	aactccactg
36481	tcagaagcag	aatcctaata	tgtcagaact	gaaaggtagg	cccggccctc	gttttccaga
36541	aatatgaaag	ggaggcttgg	gataacagag	aaatgctgca	ggcattggcc	ccaaatctca
36601	ggcctcctat	tcccagtatc	accttcacca	gcctgggtgg	tctcaagatt	ggattagcag
36661	ccattccttc	tgggtagagt	ctgatggtca	cttcagctct	caaagtccag	ctatccagcc
36721	atagtccctag	aaggcaagac	atcactgtgc	ccgaccaacc	caaggggtctc	cacctgcccc
36781	cctcaacaca	aggtgccttg	agtgcctccg	cggggatagt	ccccgtcccc	acccctgctt
36841	cccccgccca	togcgacaga	tgctcagagc	tcacccctgg	tgtcacacca	cataaaggag
36901	gagggcggtg	gccaggctcc	gagctcctgc	cgtcctgggt	gggtggcttc	tgtcctgctg
36961	gccgcggggc	agcccggggg	tcctgcgcgc	gggcgcgggc	ggtggagctg	caggggggag
37021	ctctgggatg	tctccaggga	gagttagata	tgacccctcc	gcagccggga	ccctcaccct
37081	ttccttcctc	actcaggaaa	cagaaaaggc	ttcagaagga	goggccatgc	ccccggccta
37141	agcgtgctgt	tcccggccca	gcaggccctac	cctgcacctg	gogttcctag	gggcccctct
37201	gcgggaccca	ctgcgcgggt	cgcagcggcc	gcccgcctcc	cacttcaccg	gcagctcgtg
37261	tgctgtctga	ggtgtgttga	ctcctacagc	aaagggcacg	gatccgctgg	tcagcaagcc
37321	cgacgaattt	acaccaatga	cccgcctgtg	cgccagtctc	agaccagggc	acaacacgcc
37381	aaccctgcag	accaccccc	cctccccagc	cactgcagac	ccttccccct	ctgcttctgc
37441	agcacctgtc	ccgaaacacg	ctcattcccg	ccccgcaga	ccttccctac	ctcctggaga
37501	ccccctcaa	cccctgtaga	gtcccctgce	cgtgcagaat	ccccctcccc	ttccccgcga
37561	ccccccctac	cccacccggc	ggacagcccc	gctcgtcttc	tggtcttctc	ccaagggaga
37621	cccctgtcct	ggctctgact	ggggttgagt	tcgccagttt	tgacttatgt	gtagagtctt
37681	caccacgggc	tggaagtaag	gtnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
37741	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
37801	nngagcgtac	ttcagcccgg	gtgaagattc	cttacacctt	atacaaaaat	taattcaagt
37861	tggattaaag	acttacatgt	cagacctaaa	accataaaaat	ccttagaaga	aaacctaggg
37921	aataccattc	aggacatagg	catgggcaag	gacttcatgt	ctgaaacacc	aaaagcaatg
37981	ggaacaaaag	ccaaaataga	caaatgggat	ctaattaaac	ttaaagagctt	ctgcacagca
38041	aaagaaaacta	ccatcagagt	gaacaggcaa	cccacagaat	gggagaaaaat	ttttgcacct
38101	actcatctga	caaagggcta	atatccagaa	tctacaatga	actcaaacaa	atttacaagc
38161	aaaaaaca	caaccccatc	aaaaagtagg	caaaggatat	gaacagacac	ttctcaaaag
38221	aagacattta	tgacgcaaaa	aaacacatga	aaaaatgctc	atcatcactg	gccatcagag
38281	aaatgcaaat	caaaaccaca	gtgagatgcc	atctcacacc	agttagaatg	gcgatcatta
38341	aaaagtcagg	aaacaacagg	tgctggagag	gatgtggaga	aataggaaca	cttttacct
38401	gttgggtggga	ctgtaaaacta	gttcaaccat	tgtggaagtc	agtgtggcaa	ttcctcaagg
38461	atctagaact	agaaataacca	tttgaccag	caatcccatt	actgggtata	taccacaaag
38521	actataaact	atgctgctat	aaagacacat	gcacacgtag	gtttattgtg	gcactattcc
38581	caagagcaaaa	gacttggaac	caacccaaat	ttccaacaat	gatagactgg	attaagaaaa
38641	tgtggcaccat	atacaccatg	gaatactatg	cagccataaa	aaatgatgag	ttcatgtcct
38701	ttgtagggac	atggatgaag	ctggaaacta	tcattctcag	caaactattg	caaggacaaa
38761	aaaccaaaaca	cctcatgttc	tcactcatag	gtgggaattg	aacaatgaga	acacatggac
38821	acaggaaggg	gaacatcaca	cactgggcac	tgttgtgggg	tggggggctg	ggggagggat
38881	agcatttagga	gatataccta	atgctaaatg	acgagttaat	gggtgcagca	caccaacatg
38941	gcacatgtat	acatatgtaa	ctgacctgca	cgttgtgcac	atgtacccta	aaacttaag
39001	tataataata	aaaaaaaata	aataaaaaata	aaaaataaaa	gaaaatgaag	aaaatcatgt
39061	cattttgcagc	aacatggatt	tggctagagg	actttatcct	aggcaaacaa	atacagaac
39121	agaaaatcaa	ataccacata	ttctcactca	taagggggag	gtaaacactg	ggtactgatg
39181	gacataaaga	tagcaacaat	agacactggg	gactattggg	gtggtgaagg	agggaaggga
39241	gaaagtgttg	aaaaactgtt	gagtactatt	ctcagtatct	gggtaatggg	accattcata
39301	ccccaaacct	caacatcaca	caatataccc	aggttacaaa	cttgacacaag	tgccctctga
39361	atctaaaata	aaagttgaaa	aagcaaaaat	aaaacagtaa	acaacaacaa	caacaaaaca
39421	gcaaaaccct	caataaatac	ataaataaaa	atataaataa	atgtctttgc	cagagctttt
39481	tgttttttgt	gtggctttga	gttagtatct	ggggtcacgt	tgcttttaag	ctgtttgcta
39541	tcaactgcat	cctatctaata	atttcttttt	cttaatagta	aaccactcaa	tttttggag

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FIGURE 2 (cont.'d)

39601	gagatattac	attgtgggtt	tgattttacat	ttctctaagt	atttcctttc	cagtttggat
39661	gctgagcatt	ttttcttatg	ttttttgccc	attcatatat	aatttttaaa	gaaatgtcta
39721	ttcaaactct	tttgccattt	taaaatcata	ttatttttaa	atattgtgtt	gtagaaatta
39781	tttatatatt	ctggatatta	actctttatc	agatatataa	tttactaata	ttttcttcca
39841	tccacaagtt	ttttttaaca	ttgtttatgc	ctttaatgca	taaaagtttt	aaaaagtttg
39901	atgtagtcct	aattgtctat	ttttcttttt	gttgctctga	cttttgggtg	catattaaaa
39961	aataaattgcc	atatcccttt	attctaagag	ttttatagtt	ttagatcttc	catttaagtt
40021	ttaaattccat	tttgagttaa	ttcttgtata	tggcataaga	caaagtttca	acttcactct
40081	ttcatgtgtg	gatataccaag	tttcccaaca	ctgtttgttg	aagagaatgt	tcttccctca
40141	ttgagcggat	ctggaatgct	gtaaatatta	tttgaccata	tatgtggagt	tttcttttaa
40201	tgggttcttt	attctattcc	attgggtctat	atgtctctct	ttaagccagt	gtcatgctgt
40261	tttaattact	gtagtcttgt	aacatgtttt	gagatcacgg	agcatgagac	cttcaactca
40321	gttagttttc	aagattgtct	agtcagagta	tatatgaata	tttagataaa	ttttctctct
40381	ttttcaaaaa	atgcagctta	gattttgata	gggattacat	ataatttgta	gactgctttg
40441	ggttctattg	acttttcaaa	ttaatacata	atgttgtaca	gatttgggga	atacatctga
40501	tattttggag	atcttaacat	taaatcttcc	aatccatgaa	taccaatgtc	tttacattta
40561	tttgtgactt	ctttcagtac	tgttttgtag	ttttcagtgt	acaagccttt	tatttccctg
40621	gctaagttta	ttcctaagta	ttttactatt	tttgatggta	ttgtaattaa	attattttct
40681	taattacctt	tggattgttt	atagttaatt	tatagaaagg	caactgattt	ttgtgtgtcg
40741	attttggatc	ctgcaacttt	ccagaatttg	tttaatagtt	ccaacagttt	tctggatttt
40801	atgcatatat	gcacttaaca	gttttctaga	ttttatgcag	gagtctagga	ttttatgcac
40861	ataggatcaa	gtcatctgtg	agcagagata	attttacttt	tttcttttat	tctttggatg
40921	tcttttcttg	cttaattttt	ttttcctaatt	tggtctgctt	ggaaattcaa	atactatatt
40981	gaatagaagc	gaagagacag	agtatacttg	tcttgttcct	aatccagaag	aaaagtttga
41041	atctttttacc	attgagtgtg	agttttacctg	tggatttttc	atatatggcc	tttattatgt
41101	tatttttctt	ctatttctag	tttgctgagt	gttttctgtg	taaaagggtg	taaattttgt
41161	taaacatttt	ttctaactca	atataaatga	tcatgctgtt	ttgtccttta	ttctattact
41221	atagtgtatt	acattgattt	ttgcattgtt	tattattctt	tttttttgag	atgaaatctc
41281	attctgtcat	tctggctgga	gtgcagtggc	atgacctcag	ctcactgcaa	catttgccct
41341	ctgggttcaa	gggattctcc	tgtctcagcc	tcccaaagtg	ctgggattac	aggcatatag
41401	cagcacaccc	tgccacatgt	tctatcattc	ttgcattcca	ggaataaagc	caacctgac
41461	atcacaaata	ttggtctgta	gttttctttt	catgtaattg	ctttgtttga	ctttgaaatc
41521	agggttaatac	tggcctcata	taatgagctt	tgaagtgttt	tttatattca	tttttgtaaa
41581	tgacttttgag	aaacattggg	tctaattctt	ccttaaatgt	ttggtagtca	tccggttctg
41641	ggctgttggt	tgtttgagg	tttttgaacc	agtttaattc	ccttcgtagt	tataagtctg
41701	ttcgtttttt	ctacttcttc	atgattcact	cttattaggt	tgtatatttc	tagaaattta
41761	tgcacttcta	aattatccaa	tttggttgaca	tataattaac	tgttgatggt	attttcttat
41821	aatccttttg	atttctatgg	catgggttct	aatgttctct	tttttatttc	tgatttatta
41881	gttgaatctt	ttttccttag	ttaacttagc	taagcatttg	ttaattttgt	tgggtgtttc
41941	aaaaaccacc	tcttagtttt	gttgattttt	ttctattgtt	tttatattct	atatttcatt
42001	tatctctgat	ttaatctaatt	ctttaggatt	ttcctccttc	tgctagcttt	gggtgtagtt
42061	ttttttctct	cctagtttcc	tgagggtataa	agtttaggtg	ttgatttgca	aactttcttc
42121	tacttctttt	tttttttttc	ttaagttgtg	gagatgggg	cttgctttgt	tgcccaggct
42181	ggtctcaaat	tcttgccctc	cagaagttct	cctccctcag	cctgtcaaat	tgctgggatt
42241	gcaggcatga	cccaccatgc	ctagccactt	tcttcttttt	ataatgcaca	tatttatagc
42301	tataaaattc	tctgttagca	ctgcttctgc	tgcattcttac	acattttggg	acattgtatt
42361	tttattttcc	tttatctcaa	gatattttct	aacttccctt	gtgatttctt	ttttgaccca
42421	ttgcttggtg	aaaactgtgt	tgtttaattt	tcacataatt	gtgaattttt	tgttttctct
42481	ctgctactga	tgtctagttt	tatgtcattt	tcatcaaaat	agatattttg	tataatttca
42541	atctttttaa	atttgttaca	agtttttttg	tggtataaca	tgtgatttat	ctttgggaat
42601	attccatgta	aacttgagaa	aaatactatt	ctgattttat	tgggtggaat	gttctgcaca
42661	tgtttggttag	cactatttat	agtgttggtc	aagtactgta	tttctttatc	gattttctgt
42721	cttggtgttc	tagccattat	tgtaaagtga	gaattgaagt	cgcctaccat	tattatgctg
42781	tttatgtttc	ctctctgata	tgtcaattgt	tgttccagat	atttaggagc	tctggattta
42841	gagggtatata	tatttgtaat	tggtatatct	ttctgctgaa	ttgacttttt	gttatataat

FIGURE 2 (cont.'d)

42901	atccattttt	ttgtcttgtg	actatttttg	actttaagtc	tattttgttg	gatagtagta
42961	tagtcacttc	tgcttgcttt	tattttacat	ttgcatggca	tttacttttc	ctttttttca
43021	ttttaagcat	atttgtttct	tagacctaaa	tgacaggata	aagttggatc	ctttttacaa
43081	atccattttc	cagtctatat	cttttgattc	aggagttaa	tccatttaca	tttaaagtaa
43141	ttactgatag	ggaaggacct	acacttgcca	ttttgtgtt	tccgtgatgt	tttgtaaatt
43201	ttgtttttta	ttccttctct	tactgacctc	ttttgggttt	tgctgatttt	ttttgtggt
43261	gacattttga	ttcccttcc	gtttcccttt	gtgtgtattc	tatagatttt	tttatggtta
43321	ccataagaat	tataaaaaac	atcttaaagt	gttaacaagc	tattttaaac	tgtaaagaga
43381	ataacttcga	ctgtgtacaa	aaactatttc	ttcaaagctc	ctaccctcac	cttaggttac
43441	ttatgtcaca	agttacatct	tcatatgtaa	tgtattcatt	aacacagttt	tatagttatt
43501	tttaagcttt	tgtcttgtaa	attctataca	agaattaaaa	gtgcatttat	gtacaaaaac
43561	tgcatagtac	agtctctata	tatgtccata	tatttatctt	tactggagag	ctttatat
43621	tcataagact	tcatgttact	atttagcatc	cttttgtttc	aacttgcaag	atactacagc
43681	agggtccagt	gtaatgaact	ccccagtttt	tggtcatcct	ggaaaggctg	atttttccct
43741	tatgtttgaa	ggatggtttt	gctggatata	atatttttgg	ttgaaatttt	cttttctttc
43801	agctctttga	atataattatc	ccccgcctt	ctggcctgca	agggtttctgt	tgataaatcc
43861	actgataatt	ttataaaggc	ttcctttttac	atgacaagtt	actttctttt	gctgctttca
43921	agattgtctc	tttgtctttg	acttttgaga	gtttgattat	agtgtgtctc	actgtgagtc
43981	tctgggtttt	ctttaacatt	ttttttttgt	tcatatcttc	tgatgatgaa	ttcctttaac
44041	ttttatattt	gtgaaatggt	ttttcttcat	tttcagaagg	tatttttagt	gagtgtaaaa
44101	ttctacattg	acagtttttt	tctttcagta	ctgttttagt	tttctctact	gtcttcttgc
44161	ttgtactgat	tgtatagaaa	ctctgctgta	attcttatct	ttgtgtcttt	gtacttaatg
44221	tgccctttta	ctctgcctgt	ttttaagatt	ttatttttat	tattgatttt	gatcatgttg
44281	cttgggtgtga	gtttcttcat	atttattgtg	cttggggttc	attgagctta	ttaaagtctgt
44341	agggtttatat	ttttcattac	atttagaaaa	attgtagcca	ttattcattc	aaattttttt
44401	ctgttcttct	cccatttctc	atgcccctat	ggggctaat	tatatgtata	ttaggctatt
44461	tgaggttgtc	ttacagctca	cttacagttc	ttatgtttat	ttttccactt	ctatttcatt
44521	tgggcagggt	tattatactt	ttccctaatt	tgctaatttt	tttgcaatgt	ctaateccact
44581	gttaatctca	tccaatgtat	tattaatttt	agacattgta	gttttcatct	ctagaaattg
44641	atcacttttt	tatatcttct	ttgtctctat	ttgatatgct	aagtcttttc	taactgtctc
44701	tgagcatatg	aaatatagtt	atgacaacta	ttttatttta	ttacaacttt	taccttaggt
44761	tcagaggtag	atgtgcagg	ttgttatgta	ggtaaactcg	tgtcacagga	gtttgtttat
44821	tatttcatca	ctcaggtagt	aagcctagta	ccaatagtt	gtttttctgt	tcctctccct
44881	tctcctaccc	tccaacttca	agtaggcccc	agtgtttatt	gttctctctc	ttgtatcact
44941	actattttaa	tgtctctact	agttctctta	tttttgtcat	ttctgagttg	attttatttt
45001	tctcactatg	gccatattct	cctaacttct	tgaatatctg	gtatgcaaat	tatacctagt
45061	atggatatta	tatcaagacc	ctgtcgcaat	atggatacct	aaaagaaaat	aacaatgttt
45121	accagtttgc	tctaagcctt	tcttagctct	tttgcttgtt	tctcaagaac	aagcacagag
45181	ggtggagctc	aaccaagact	gaagttaaag	atgtagaaa	attgagatgg	gaagtaatta
45241	agttgaggag	ctctgataca	atgggtatttc	tctttttaat	catgtaagat	gcaagcccaa
45301	gataatatgt	tgggaaagtt	gaaggcgaat	gtcttgagaa	atatgaaatg	cacccaaggc
45361	tatggctggg	tgatagaaat	aactaaaaag	ttttaaaagg	attgttttat	agctggctct
45421	tgctgagggt	aggggatagg	cctggaaaaa	ttgagcagtg	gtattgccca	ggcaggactc
45481	ctcatgacat	tctccagatc	cctaagtttt	tccaagtttc	caagcatttc	cttggccagc
45541	aagtcacttc	gcagcacaga	tctactctc	tttcagtcag	tcattccaca	actctacaaa
45601	gcatttttct	ccatcaaatg	ggaacttttg	gggttctgca	taatttttca	gggttccacc
45661	acttttgact	ctttctggat	accttgtaag	gatattataa	ctctttaatt	catgtccttg
45721	attttctctt	ttaaactttta	atactgttca	ttgctgttt	acctctttca	ccctcttctt
45781	ttcacttccg	ccctctttct	tgtgtaagta	tataatcatc	ctttttttct	tcctcgaatc
45841	tcagttctcg	ggagtaacat	atacaattca	ttcttacttc	cagtctttta	ttcctaagtt
45901	ccttatctct	agttctcttg	catattttgt	gcaattatta	gtttttttcc	aaaaatccat
45961	tctccctttt	tctgtacat	gtatcttttc	agcttgacca	catttccag	cttccctggc
46021	agctagggtga	agcaatgtaa	ctaaaacttt	gcctgtaaaa	tatgagcaga	agttatgtgc
46081	acaatatctg	cctcacttgc	ttaaaataaa	ttgtattatt	tgagctttct	atattgtccc
46141	tttttacaa	taaaatgtag	aggttatggc	aacttttatg	gtaaagagaa	tcatcacgta

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FIGURE 2 (cont.'d)

46201 ggagatcaag aatcattgat ttgagaggaa cctaaatcct ttaatgactt agtggagcaa
46261 gactgcccc aacatgagcc actatatatt taggtctctt catgttaaca gtttagcttt
46321 aaaagagaaa aaatgaagcc cctgaatggt agcatattat taacatcaca ggaagggaat
46381 taacctaaaca cacattttatt cctgaatggt agcatattat taacatcaca ggaagggaat
46441 tccttggttca tggatctttt attttgttga aataaaggta atctgcttgg gcttaatact
46501 gccaaaggcag aatttttttg aataaattat tctatagatg acccattcat aatgacaact
46561 aacatggttt ctaaaatgga ttcatgtacg tcatcttatt tagtccccgc aaaaattctg
46621 aaggtaggta taattattcc cattctatat attgaaaaat tgggattcag agagactacg
46681 gacttataca agtttctgca gctattttaag aaacagagta aagtctcaaa gccattaatg
46741 aactgttttag tttagtgtcg cttagtataaa ttgaactgtg ttgaagtgcg ttttaatatg
46801 aaacccatcg atattttagtc agctctctgc ttgctaacta atatggaaga aaaaacatac
46861 atctacgtac atcctgaatt gggagaaggg aaataaaaata ttgccaatcc cctttcctgt
46921 attaggtact gtgataaggc gataaggctt ttcattatta taaatgagtc ctggagagggt
46981 taagcgagtc caccacaagt cacatgacca gtaaccttca gagattttac occaggtctg
47041 gaaagactct gaagcccatg ttattgcctc cagagcctgg tggagaacct ctgaatggga
47101 cagagactca gcagacagag tggctcttcc cttccaggga gtcagggaag gtttggtagg
47161 ggagatagag ttagatctgg gtgggatttg gatgaaatga gatcaagcag ggataaataa
47221 gatccaagct gtttatgagg gacagggaga ggccagctct gttagaaaga gtgggtttata
47281 cagagaagca tggaaacatt tgctccatgc ctgccttcc atggatagca gtccagaaat
47341 gctacttgcc tgccatgacag tctttctcca gtccccaggt gtggacacgt tctgagcacc
47401 tgagcctggg tctgccctga cccagattct gtgagctggg acagagaatg tgtcctgctg
47461 tccctcctcc cccacttggg cccacaccct tttctacaca tttggattag aaatctgaat
47521 tggcctttct gtgaacccca atgacaggca agtccccagt aaagaagcac ttaatttaat
47581 tgctccttca gggctcactt agagtaatag ttgtgaacag ctctccctag tgtctccac
47641 aggcagtgc aaatgttgct aaagataagt cacaatttct tggcaaggcc atcttaataa
47701 tgggaaggaa acctgtgtca gtcctgaaca gtccgtgttca gactgatctt atcacagggt
47761 gcacactgcc tcaatgtcac catgtttcta cctcagttg tgcttggcag agagaggaca
47821 gctatacata aagtctgttc actctacaaa ggtgaaatca ttttttttaa ggttaattatg
47881 attgttctga ggatgggtgat tgagtacatg ttaaaaaatg ggaaaagttc tactcatac
47941 tctgtctgct taatttgcct atataaaaga cttaatgggt tttgttgagt tttgtccagag
48001 tcagtaacat ttgaatatgt gttattacca tttgatcagt aacaaaacaa cagggttaagt
48061 gggatgccaa atgtggctga gagtttaggg tttacattcc acacccagc cttaaatac
48121 tttgtataaa ttattgggtg atttttcttt ttcattggct ttctttgaca tttgatggg
48181 ctggatttat ggaggcaacc aacaaattac acagcaatga attctggact gtagtccac
48241 agccttgagc ctagatacta gctgtgtcac taatactctg tgtgaccagg gtaagtatt
48301 tagatacatt tatgactttc caaatcaata ggttgagcaa agttatcttc aaaatgtctt
48361 tcagatttga cctgaacat atgcgattct ggcattgtct gatttttagt tttctgttct
48421 tgaagcatgt ctacaataga aatgcctacc ttcatacaca ataaaaggac attagattaa
48481 tatgggtgtc gtgaaaatca ttgaacagct ttagagataa aaataatgaa atgagtcaag
48541 ttctccatta ttaattaaat cttttaaatt ttctgtttat gaaactatga acaataaatt
48601 ggaacaaaga tataatctca ctacaagtaa attgtatttt atgtaaaata taatttgtct
48661 ttagaaaata ctcaatgaaa ttacctttt aatttcagag attttgagga ctattattgt
48721 tatttcttta aagtataaaa tgtaatccaa gatgcctttt ttccccctc agaagcttga
48781 gtgcccagg gtttgataaaa tgtggaaaat aaccgctgtt cgaatatcct gttggcctgc
48841 tggtagatg tcatcgtgtt gtcgaatgc agtatgtgtt taaacttgc atttattacc
48901 tgaattgtg ttattttgct tcataccctt agtaatactc ttgtaatgct ggctgagaat
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49021 gactggctga ggctgtaaaag aaatcttgtg gtcattctca tggaaagagg attggagccc
49081 cgattctttg atctcattat tgaccagtgt attgagaaga ctgtcctcct gtccccaccc
49141 aatcacata agtgggtaat tacctgaggg ctaatttgct ccttgaatgt gaatacattt
49201 gtggaaattt ccttgtgtct agcacctgtt caaaacatcc atttgtattg cagagctatt
49261 gtttttctaa tctcattgtg gagctaagg agagattgtg ttaagggtt ccttcgtaat
49321 aggttttctt gctccaggaa ggatgcgtga cagactctgc acactgtgc ttggtagggt
49381 ttcagtgtat gatgcgtttt ccatctccca ggtacagctg cagctgtgct gactctgggt
49441 cgtttgtaat atgcactgtg gagtgcacca tgatttcatg atggctggag aaatctgggt

FIGURE 2 (cont.'d)

49501 gctagaattc tagggaggag gacatgagtc ggaagtgcag aaacctcaca ctgggacatt
49561 gatggagaaa atccaattct gtccctggag ttaaagagga gtcactcact gggccatcat
49621 aagagcaaat aaagttacag ttatttcttc agatccacaa ctcaaaactca gcgaaagtaa
49681 ttatttactc tttttgtccc aaacaataat gaaatcagct aaagcatatt gtatttatta
49741 cttccactca agttattgag ctgttctgac accttgttgc tgggaagata cacagatgga
49801 acaccatcat ttccattgat tctgatcata cccacgcta atatagcctt attgctctga
49861 gtcataggga ttttatgctt gcoctattcaa aaaacagttt ttaccttatt aaaaggtgat
49921 atgacctgag ctggagatga tgtttgttca ttttgtgtaa accttttaat attttagtgg
49981 taaatacatt tcttgaatct tgacaaaaac ataattaaaa tgaacatatt taaaatggac
50041 atcttccaaa tgttcatttt taaaacaaac atcttccaaa tgttcatttt taaaatgaat
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50161 agtgcagtgg cgcatctcg gctcactgca agctccgct cccgggttca cgccattctc
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50281 ttgtattttt agtagagagc ggggttcacc gtgttagcca ggaaggtctc gatctcctga
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50401 gcccagcctc ttccttaact tttaatgaat aaagagttga aagggaaaaa ccaaagtgtc
50461 actatgctga ttttatcttg agctgtacag aatgtgcagt aacttaagaa tataagtcac
50521 tctgctgtta ttcatactag cctattcttt agcattattt aaacacacat atttgagtgt
50581 ctacacactg cctgctaggc agggggctgg gtgccaagaa gggatgtcca gagataaacg
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50761 cccaggggaag ggtgctcag aaagaggggg ctgattatgt ccttggttca tgagaaaaag
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50881 gaaaggctgg agaggagtg gatccaggaa aagttgctgg gagcatttat tcttttgga
50941 atgggaagcc atggaagaac tgttgaagg aggattctgt gtgatacatc tgccttttag
51001 agaggtcatt ttatagaaaa agtagaaaaat acagaccagc aaaaatttaa aaagtgaaaa
51061 caatcactgt tcaagctctg gtctagcact caccagtgtt tttcctacag gtgcataac
51121 aacatgctt ttacatttta tttttatttt aaatttttca ctatcctcaa tatcatgga
51181 aacaaatctg cttttttaat ttttttttta aaaatgagat cctattgtac acattatttt
51241 aaattttttt tcattctttc ctttttttaa aattaaaaca attttttttg agacagtctc
51301 actctgtgc ccaggctaga gtgcagcatc gtggtctcag ctaccgaaa ccttgccctc
51361 caggttcaag cgattctcct gcctcagcct tccaagtagc tgggattaca gacatccacc
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51721 tgggcgaccc agccaggtct gcggagcggg gcccggcggc aacccctca cggacgtgg
51781 gactcccca ccccgctccc attcagcgt agcgtggag gggccaggcc cgcgccagg
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52021 cttcatggcc ctctgcacca tctgcacgtg ccaccgccc cctgtggcgt tggcctggag
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52261 agggaggagc ctcccggcca atccaatgca agggactgaa ccgtggggct gcagagtaca
52321 agagggaagg gtgcgctccc agccacagga gggcagcagg cgtgggcagg tgtgtggggg
52381 accccagcac cagcgggcct gggtgtgtaa gtctgtctta gtgctgagca cacgacctc
52441 agtcattgct ctcatgacc ctgagtttcc aggacctg caactctgtt gagggcctgt
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52561 cccggttct gagtgatgca gacacactca caagctcact ggcacatatg tgtgtccag
52621 tgacacacac cacatgcaaa tacaccaggg gggctgggt gtcgggtgcca cagaggtttt
52681 gaagaaggac ttgggtgctg ggggtgccaga gattggtcca cgggtggcat tcagcccaag

FIGURE 2 (cont.'d)

52801	caggaccaac	cagagctgcc	ccccagcact	ttctgttttag	atgcggtctg	gagataatgg
52861	ccacatgaga	acctgaggtg	gagctactat	gatgagctcc	tgtgccctct	cccatggggg
52921	cctgtctgca	gcaggagagt	gtgatgccaa	cacaggtgaa	agagacagaa	agagggagcc
52981	agtgtgcatg	caccctgggg	cattgtctga	gtccctggat	ccatttcttg	ctgaggcccc
53041	cgaccctcta	ttgtgtccag	gtattttgaga	taaggcatgt	cttgtccagc	tgcagctggt
53101	ttgagttggg	ttttgtcatt	tgcagcccaa	acagtgtctc	aacttcagtg	gtcatctggc
53161	ctggtcacta	atgggctggg	gaaaggagga	agggtggggc	aagggcccat	gtgagagtcc
53221	aagcttggtg	aggctacaga	gggctcaaaa	cgaggtgggg	tgctacctga	gggatgogag
53281	ggctgggcag	ggcctggagt	ccccgatgca	ggagacagtg	gggtgggagg	gttgggaccc
53341	gggaagcaga	gtgctgggga	gggtccaggtc	agggtggcag	gggtgtggca	gattaagagg
53401	cagacacagg	ttcctgggtg	gtaggaggtc	agggggccat	aaggagtgtg	ttccagaggg
53461	gggtctacac	ccagggtccca	gaggtctggga	gaggggaggg	gtgggagggg	gggaccagga
53521	gcatcagtg	agaagggaaga	cctggtgggtg	cgctgggagg	agtgtctcctg	gctgaatggc
53581	acgggctgga	gacatcagga	ggatgtctga	gccagtgtctc	tgagcagact	ccagccttca
53641	cccttccagg	cctcctgaaa	gggtgtctag	atctcagata	gggagtgaag	gcgccaggcc
53701	ttgggtcttc	caggcaacaa	gtagggtagg	agggcaccca	ccttgtcaaa	gaggccacac
53761	tcgcagatga	gctgtctcacg	ggccttggtg	ttgattgcaa	tgggtgaatct	cacgtgtgcc
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53881	tgctcaggg	acccgcagct	ccccaccca	ggcctgccct	ataggatgat	gctgggogca
53941	gggaggaagt	gaaggctggg	tgctgatctt	tctgtgtaat	aagtgtctgga	ggcctgcacc
54001	cctctgatgc	ttactaagca	tgataatgat	tcagagggtc	ctggccagca	cttgtaaat
54061	gcttacctct	ttgtctcctg	agttcactgt	cttaactctga	ccatcattct	gtaaggcagc
54121	tgtaactatt	gacctgtttt	actggtgagg	aaactgaggc	acatgggtac	ttttagcatg
54181	cagtcacccc	agcagccaat	gcttgtagga	ttcgagaaca	gggacggaga	gtgatggcag
54241	gggcggccat	cagcatcagc	cgaggatcac	catgaactca	tttgcccttt	ccaactctac
54301	tggttgcca	gcgaggccc	tgtgtcaggc	ccatgcccc	gccgcgtgtc	ctggggaaca
54361	gcaggctcct	agctgttttc	ttccttttag	ggcattactg	actctgagaa	catctctcca
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54481	ctcccactcc	acatctcaga	tgccctccca	tagcaggtgg	ggcggtagct	ggctgtacct
54541	tgaaaatggg	gtgcacagca	ggcaggtggc	ggtacattgc	aatgccaaaa	acctcagaca
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54661	cccagatttt	ggccaaaagc	cagtcgtatt	ttgcatccga	agggaggaaa	atagggttct
54721	catctcccg	gatttggttg	agctgataca	ttgggggaaa	ggaaacacac	tgctatat
54781	cacttcagag	tatagttgtt	ggagaacttc	gcctcttggg	aagttccaga	agtatctgaa
54841	tttctttaac	agtgaacttg	gaatcagaag	agcctggagg	gggtaaaagg	ccctgcggtg
54901	gtatttctctg	tcccagccat	attacttaca	acctgcatga	ctctggatga	cacactgggc
54961	tttctaagct	ccggcttcag	catctgtcat	gtggggacag	tgatcgctcg	gtcacagtt
55021	actcaggagc	tggcagcatg	gaaggagcgg	gcaggccgaa	ggcccagcag	cggaggggga
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55141	ctctcatact	ttcctccctc	tctcttcccc	tgaatgctg	gagctcccca	gggtctgcca
55201	tggtgtcct	gtcttctttt	cttgccctaa	gtcagctcct	cctgtttaaa	ggcttggggc
55261	cctcctggta	ctgagcctcc	cagatcaggg	tctgcagctt	gagctctgcc	tggagccccc
55321	acctgtggcc	aggcacctcc	tgtagcagag	gctggacctg	tcttcccttt	ccagtttcca
55381	ctccacactg	ggacaagggtg	agtttttttc	ttttccaaaa	tgcaaatcat	gtcatgttaa
55441	ctgcctcttc	aatcacctct	taatgccaga	aaataaaaac	cccaagctct	gtggtgacct
55501	ggttgcgtgat	gcctctgtac	acacagcctc	actttcgtgc	ccccacacca	gcacccagcc
55561	ccaggtccct	ccatgccagc	agccctgcac	gttgccccct	tattgagagc	ccagcacagc
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55681	ttacatgaag	acatggggta	ttggaggggt	tgacagaaa	aatgaggtgg	gtggcagggc
55741	tgacagccaag	agcggccagg	aaggggcatg	gccagacttt	agggtgctggg	aaagaccagt
55801	gtcactgcag	cacagtggtc	atggctgggg	agggagaact	gtcccagagc	acacagctgt
55861	gtcacttgct	ataagtattg	tggaaaggtg	ggtccttggg	ogtctctccc	tcgaaaaacag
55921	tgctgtccaa	tagacatata	atgctacccc	acacatggaa	ttgtatatat	tcaggaagcc
55981	atattaataa	aaataaaaag	aaacaggtga	aatgccgggtg	aataatataa	ttttatttta
56041	cccaatatat	ccagaatatt	atcacttcaa	catgaaacca	atctaaaact	attaaatgag

FIGURE 2 (cont.'d)

56101	atatttcaca	ttccccacct	ccttatttcta	agtcttaaaa	atcaggtgtg	aactttgca
56161	ttgcagcagg	ttttggtttg	gacgagccaa	atcccaagtg	ctccagagcc	ctggtggcca
56221	gtggctccac	cctggtcaga	gagaccccag	aagcctcagc	actccctgag	gaccaaggag
56281	gggggaggga	ggaggagag	cagagtgtga	cttgacacatt	aggcgtgcct	gtctgtttat
56341	acttgagatt	agttggctgc	ttttaaatac	cagacagttt	cacataaaaa	tttgaatgac
56401	ctggttttct	tgaaaaatta	gaaggtctca	gaactctgca	cccaggttct	cacagaacta
56461	cgctcttgtc	cctttttacag	agtcccagct	ctcaggttcc	ccactgccac	acccgtttgc
56521	atgacatgct	tgggcccactg	atacctgata	tgtgccctag	aatgctgggc	tgccctggcat
56581	gctctgagac	actttctgac	atgtccccac	atgctctgac	atgttcctga	tggctctggg
56641	acactgacat	gttcctgatg	gctctgggac	actgacatgt	tcctgacatc	ctctggggcc
56701	gaggagcccc	cctgtttgtg	gctaggggct	ttacccatgc	tatctcactt	aatcctcact
56761	ttgaccctgc	aaggcagata	ttccttgctg	taccattttt	acatgggggg	aaactgaggg
56821	tcacgtgggt	ttagcagctc	tcccaagtca	cacagtaggt	aaagagctca	gccggcaaca
56881	tgatattgaa	caggcaaaaa	ttggaagcaa	tccccctaaa	aactggaaca	agacaaggat
56941	ctaataactt	accctccta	tcaatagag	tactggaagt	octagtcaga	gaaagagga
57001	aagagaaaaga	aataaaagggt	atccaaatga	aaaaaaaaaa	aagaggaagt	caaattatct
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57181	aacagaatgc	ttgttcctcg	gtactgcaag	gaaaaatcag	catttagaca	aaaagttttt
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57301	gagcacacct	gaataatgga	gagaagcaat	ttttattcct	tacgcagctt	gtccctgcta
57361	cogtgcctg	tctccattgg	ctggagccaa	acctcacagt	ctaaactaaa	acccgactgg
57421	ctaataactt	aaaacttttc	taaataggta	aaagcagtgg	aaagacaaaag	gaaaagagga
57481	agttgcttat	gaaaggactt	agaaaagtaa	taacatttcc	aaataaggaa	ggggcatggg
57541	ctgcaagctg	ggacatgcct	gtgagcacgt	ccagcacaaa	tatcttggtt	aaagtacaag
57601	gacatagaat	gtactcattc	ccttatatct	aacagctaca	tatgataggg	cttaacaaaa
57661	agttatttagc	acaaagcgaa	aaggcttaaa	aaaagttagt	ctttagaaaa	aactattatt
57721	tctaacacat	aattttactcc	ttaacaaaaa	aaaaactttt	gactttctac	actcaagata
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57961	ctggctaatt	tttgtatttt	taattgagac	ggggtttcac	catgttggtc	aggctggtct
58021	caaaactcctg	acctcaggtg	atctgcccac	ctoggcctcc	caaagtgcctg	ggattacagg
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58261	ctataaaaaca	ctgatgaaa	aaatcataga	tgacacaaaa	aaatggaaaa	acatccagc
58321	taatgggttg	gaagaaagca	atctacagat	acaacacaa	tcctatcaaa	ttatcaacat
58381	cattttttcac	agaattagaa	aaaaaaatcc	taaaattcat	atggaaccaa	aaaatagccg
58441	aatagccaaa	gcaatcctag	gcaaaaatac	aaagctggag	gcatcacatt	acctgacttc
58501	aaactatact	acaagactac	agtaacaaaa	acagcatggt	atactggtac	aaaaataggc
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58861	gactagacct	caaaggcata	tgcaacaaaa	acaaaaattg	acaaatgaga	cttaatcaaa
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58981	tgagagaaaa	tatttgcaac	tatgcatcca	caaacgacta	ataccagaa	tctatgagga
59041	acttaagaaa	aaacaccacc	attaaaaagt	gggcaaaagga	caggaaacaga	cacttctcaa
59101	aagaagacat	acaagtggcc	aacaaacata	tgaaaaaatg	cccaacatca	cttaactca
59161	gagaaatgca	aattaaaaacc	accagtgaga	atggctatta	atggctatta	ttaaaaagta
59221	aaaaaatgac	agatgttggc	aggatgcaga	caaaagggaa	tgcttacaca	ctgttgggtg
59281	cagtgtaaat	tacttccatc	cctgtggaaa	gcagtttgga	gattttgcaa	agaactgcaa
59341	atagaattac	cagttgaccc	aacaacccca	ttactgtgta	cctacccaaa	ggaaaagaaa

1007441 "000000"

FIGURE 2 (cont.'d)

59401	ttgttttacc	aaaaggacat	aggcacacat	atgtttattg	cagcactggt	cacaatatca
59461	aaatcatgta	atcaacctag	gtgcccata	atagtggcac	cagataaaga	aaatgtgata
59521	catgtactcc	aaggaatact	acatagccat	aaaaaagaat	gaaatcgtgt	tctttgcagc
59581	aacatggatg	cagcttagga	ttggcactta	agccataatc	ttaagtgaat	taaccagaa
59641	acagaaaatc	gaatactgca	tgttcttatt	tataagtggg	agctaagcat	tgtgtacaca
59701	tgggcataaa	agtgggaaca	aaagacactg	gggactccag	gaaggggagg	gagggaggaa
59761	agggttgaaa	aactgggtat	tgggtactat	gctcagtatt	tgagtgatgg	gttcaataga
59821	agcctaaccc	cagcattatg	caataataac	atgtaacaaa	cctgcacatg	tacctgaatc
59881	taaaatttta	tatattaaaa	aaaaaaaaac	tgttctgacc	agtaaaaaaa	gagctgaatg
59941	aggatggggc	cagtgtctctg	cctatttcag	cccatcactc	tcccttctgc	ttctcttcac
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60061	gccttcccc	acccatcctt	cacatcctcc	cactcctgtc	caggattttg	gcctgccatg
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60181	gtagctttgc	gtttctgatt	agaaaagaat	atgtgcttat	cgtaaaaaga	aatctgagtc
60241	atgacaggag	agcctgagaa	agaaaacatc	atctcatctt	ccagcgccca	gggataacca
60301	ccaaattctg	gggagcctcc	tttcatagg	ccttgcatgt	gtgcacattt	atctgtccaa
60361	ttttccatca	actgaatatg	attataatca	acatctgtct	ccttggtttg	ctcacctgtc
60421	ccccactggg	ccatcactgt	gttctacct	ggtgacactg	cgtccttggt	tccccatgct
60481	ggcacagtag	gcctgctgca	tcttgcat	cattttacat	aagtgagacc	atgcccattg
60541	ccttagcagt	ttgaaggagc	tatttgtata	cgacagatat	gtatccttta	tcggtccctt
60601	gtgtcttgtt	tttccactgt	taactcattg	tggagacccc	tccaggtcag	ctggaaggga
60661	accaaagcat	tcctttcaaa	gacgcctcaa	cattttatgg	tgaggacatg	gaagggctca
60721	ctcactcaat	cctcttctgc	cttcagactg	ttttcaattt	ttttcccat	cacaaactat
60781	gctcctgttg	ctaccacac	acatttgtgc	tttcatttct	gctgagtggc	tgctagcgaa
60841	ggctgagcct	tgggggtttg	ggtatgtttt	cgagtagaca	gtgcctgcc	tactgttctt
60901	cagacagttt	cactctcctg	gtgcacacct	gttcagtgtc	actggctgtc	agaacactta
60961	aacaataaag	tcccctccag	tgctcctcca	attgagacgg	ggcagggggc	tcctcttagg
61021	gcactgtagc	ccccagccc	cgcaacaggg	catggaaatg	aaggaaaatc	ccgagttcct
61081	tgaagggaag	ttccaggcac	ctagctagcc	ctgagaaata	aatgagcaac	ttgacaaaca
61141	agcgggtaac	agcagcctaa	aacaacagcc	aagggaagcca	gagtcctggg	ctgtttgggt
61201	ccctctggaa	actaaagaga	accctgaac	atgtgtctct	gagttgtttt	tcagaaaacc
61261	agacccccac	caaaccgatc	cactggcaca	gagacctcag	ataagacgga	actgaggact
61321	gaactctgag	caggctcttt	gttctaaatt	tcttctggg	gggcctgggg	gaagtcccgc
61381	ccacaagcca	cagctaacat	tcctttctgg	taaccctaat	ttttaaatga	aacttctctt
61441	ccttaaccaa	tttcaaaa	acaaattttt	gaatctacct	atgacctgga	agcccacccc
61501	cacttcaaga	tatcccgcct	ttttaggcca	aaaccaatgt	gtaccctcca	tgatttgatt
61561	aatgattttg	cctgttaact	tctgcaattc	ctgaaattca	ctctgccttt	aaaaaccctt
61621	acctgcaagc	catcaggag	ttccgggtct	aagagtgaag	tgcccaattc	tccttttttg
61681	gtccccgcaa	taaatgcctt	gtgttctcgt	agattatata	ccaatctcag	tgtttggttt
61741	tgtgtcactg	ggcaagcaga	tcccagtc	gctcggtaac	acaactgtcc	tcgccacgac
61801	agcctcaacc	ccaggaccct	ctgaccgccc	actgcaacat	gcacctggta	cagcaggcgc
61861	tgtgggatct	gctccgggtc	tggccgaagc	tctgaccttg	ctccgggtgt	ggccgaagct
61921	ctgaccttgg	gctgcccagg	cccaccagtt	atcccgtgaa	cactgccagg	ctgcaacaac
61981	tcatgagcag	agcatggggc	tccgtccttg	ctggtgtctg	ggagttaccc	ccttggtttt
62041	ccaaccagcg	atgtcagaaa	tgatatctca	ttgttaactt	tcatttgcat	ttctctaact
62101	acaggtgaag	ttaggagttt	ttccatatgc	tgggtgccc	tttacatttc	ttcttttggt
62161	aattgcctat	tcattattct	tgtcattttt	tccactggag	tatttggtatt	ttcccgtaaa
62221	tgtaaaggag	ctacctgtgt	atcatagata	ggcatctctt	agctgtcact	tctgttatgg
62281	ttactcacc	taatctctgt	tttgcttttt	ggctttgttt	atggtttatc	actcaagttt
62341	taaaacatta	cataatcaaa	tatgcttagc	tttcccctta	taacttcttg	gtttcccttt
62401	ccttctaaaa	gtcttctgag	tgtctgcgta	attagttttt	ctaaattcgt	tacttttttt
62461	cattttaatt	tttactttcat	ctgaattttt	tctttttctt	ctaagcaact	cctctacatg
62521	atgagattta	tttttgtaaa	tggcatgaca	gagcagtcca	atttaatttt	cttctcatgc
62581	aaaggcagtg	tgatagcatc	attaaaaata	tatccctttt	tactgagtt	gaaaaacctc
62641	cattgtgata	cactgaattc	ctctgtgggg	gagtcatttt	ctggatctta	ctctatactg

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FIGURE 2 (cont.'d)

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62701 tcccccaatt ctctctgttt tcaagcacag tgtctgttta acagtaacct tacaaaatcca
62761 gcaaggaaaag tgttccttct gtgttttctt ttactttttt tttttttttt aaagataggg
62821 tcttactctg ttgccagtg tggagtgcag tggagcgacc atggctcact gcagcctcaa
62881 actcctggac tcaagccatc ctcccacctc agcctcctga gcagttggga ttacaggcat
62941 gcgccaccat acctaatttt ttctattaat tttttttttt ttttaagacat gaggtctcac
63001 ttggttgccc tgcctctcta tgtggtttta atttttttca aaaaattttt gactatgcta
63061 gatttctttt tccatatgaa tctttcaatt ttttaattgt tttctctcct ttttagttcc
63121 tcttcaccac caccacaccc ccaccaagaa agataaaaaa ttctggctga aattttactt
63181 ggaagtgcac taagttttta taatagaatt tggtagaact gacattttta cagtttcctc
63241 cccaatatca aatcactggt aagagttcat tgtatatcct ttaaaataac tttatagttg
63301 gccgggtgag gtagctcacg cctgtaatgc caacactttg ggaggctgag gcaggcaaat
63361 cacaaggtca ggagttcgag accagcctgg ccaacatggt gaaatgccgt ctctactaaa
63421 aatacaaaaa attagctggg cgtggtggca ggtgcctgta atcccagcta ctcgaggaggc
63481 tgaggcagga gaattgcttg aacctgggag gtggaggttg cagtgaagcg agatcacgcc
63541 actgcactct agcctgggtg acagtgcgaa actccatctc aaataaataa ataaataaat
63601 aaataaataa ataaatqaat aactttatag tttttcctta tatgggcatt atattttatt
63661 gttagtatgg agaaaggcta ttgatttttt tgagaaatat atttatctaa acactttgcc
63721 aaatgaattt attaatctag tagcttttaa aaaaattaga atctcttggt tttctaggtt
63781 ctaccatagc attaccagaa aagatcatct tccctgttct ttgacaatat gtttattgat
63841 tgttttctct ttttatcatg ttgtatgacc tctaaaaataa tgttgaataa aaacagtgat
63901 atcagcattc ttattatttt aatggaaaat gcattagagt tgcacctttt tgaagttagc
63961 tatcttttat atataaagta aggttctctc tattaatttt tattagttgt ggctattaaa
64021 tgttattaaa ttccctttta gtgtgaattg atataatcat aaactttatc cttatgggta
64081 taataaatta tgggtgtagc tctcttgata ttgaaatata tgggaataaac cctgcttggt
64141 tattacatat agtcatttaa tacactgctg cactcacttc gctaatatca cctttagttt
64201 tcttttaaat ctttatttaa tacttggtat ggtcttcagc cttcttttga agcctgcctg
64261 tatccagttt cagaactaag cttacaccag ctttatatga tcaatttggg gctgataaag
64321 agccctggaa atgtcagctg tctagtggct ggggtgagact cagctgctcg ctgtgtaggt
64381 ctgtttccaa tcactatatg gaaattggcc tattttctac aatttcttct aatttatctt
64441 tgttattggt tttatccatt tctctaattt ttcaaatttt tgocatatta ctctcattta
64501 aaaaatatgt aatcataatt actgttcttt ttttttttta agagacgggg tcttgatatg
64561 ttgctcaggg tagactgctg ttgctattca caggtgtgat catagcacac tacagcctca
64621 agtgagcctc ctgcctcagc ctctcaagta gctgggacta cagttgtgta ccaccatggt
64681 gcctggctat aattactctt tttatgattc cttttttatt cogaatcttg catttttttt
64741 ttctatctct ttttttccat cagectcatg aggaggttat tattattatt ttttggaact
64801 ttcaaagaac cagatcttgg atttactata ctctggcttt catttgcttg agtctttata
64861 gtttgcaaaag ttccattttt cagaagaaga aagagacca ggaacattct gtgcttgct
64921 caaggtccca cagcctgcta gcaagtggct gaactggaat ttaagctagg cccctgactc
64981 caggctgctc caagagatct ctgagccaag cttttgaagg caccatcagt ggtgcctggg
65041 atctccgggg atctcccagc aattttgtct tcttttaggt cacctgtccc tttacctgct
65101 gcttcagttt cttaggcaca gggcttctct ctggtaacag acaggaagct cctctgaggc
65161 tacgtgcccc tgggagactg tggggagggt ggaatctaga gtcagatgac ctggcctgaa
65221 tcctagctct gtggctggct gtgggcacct gtgtctcagt tttcttatct gggtaaaatg
65281 atcaacatca atagagccca ctacctagga tggttgtggt gatgattaca caaataaaga
65341 taggttatct aaaaccccag tggtoaaaat tgcttcagaa tcoagaattt ttaggatttt
65401 agcagtgggt atacttcatt atgtgccata cccctccca cccctcagct agggcaacat
65461 actattttac aatcgaacag agcagtattt ctgcagtgat ccacatacat atcacattga
65521 atggaaaaag cctctaaata acctcaccta ttgcttcaaa gaaggtttgt ttacaaacaa
65581 tgaatttgct gcacagtttt gaaatatgca gcagttttca gatttttttag atttagaatc
65641 gagggtaagg gattgcggac tgtgcagggt aacctatagg atagccttgg catgtggctg
65701 gtgcctgacc tatccagctg ctatttgttc cacagctccc aaggtccagt tcatggacat
65761 tatttgctga atgctcatct gccagttctc caggtgtctc tctgcgcagt tctccctac
65821 tcccaggggac ctatgccagc tccagttctg gccttgccc ctgctgtctg cacaccagct
65881 cccagcctgg cagcaggctg gtgccaggaa cagggggaga caaagccctg tgcccgcctg
65941 cctttcctcc agggctctcc tcttctctct gcctcatctc oggtggacat aagaactcac

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FIGURE 2 (cont.'d)

66001	atcatcatca	aaggtggcat	accaggactg	gcctgggttc	tgaccccaga	acccatgggtg
66061	ccccctcagt	gtcttggtct	ccagcttagt	ccacagcttc	acctgcctgg	ccccctggcag
66121	caocttgact	gggggcccct	ggtcagggtg	ctgggggtga	gagtgcagaa	tatgatccca
66181	gggcagggtcc	tccacagtgt	gcctcgactg	gccaggggct	tctcaagtgt	gccttgggga
66241	gtagaaccct	ctccgcccct	atggacagcc	cacctcaggg	cctgcaggaa	gccctagtgt
66301	ctttcaagac	atagcttcct	cagctggagt	gtgaatggag	ccacccagga	gccctggatc
66361	gcagaggact	gagctgctca	gaaaggtgtg	ccccccagca	gcctacctgg	atggcaatgg
66421	ggacaatctt	gttggccagg	ttcttatata	gcaagcagat	gggagcggcc	aggaactgga
66481	gtgtgcaggg	gtctgttttg	ttggcatcga	tgccatccag	cagctcaaag	tccacgatga
66541	aaatgttccc	ttgctgcagg	aggcagagag	atgtgtccaa	atcaggctca	gcagacggac
66601	caaaaatcag	gcctggggaa	agagtgatga	cctctgggca	ccccctctcc	tttctctgca
66661	ctcagcggag	ctcagaatgt	gtacttctct	cctctgactc	caaggetgat	tgattcacat
66721	ggaaggtgtt	cacaggttgt	ggcagttcgg	ggtaaagtga	aggaatggca	gcagctcatt
66781	cggcatttgt	ggtgtctgaa	acctgcttga	ctggcacgaa	agatgagaga	ccgacccagag
66841	tgtcagttta	ctaagaagaa	agaggttagg	tgaatatagat	gtgacgagtt	aaatgccaat
66901	cttcaccacg	gggctgaaag	tccgnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
66961	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
67021	nnnnnggggtc	ctcagggtgt	gggctcagc	ccgcccgttg	ttccacccta	ggcttcccca
67081	agtcgggtcaa	gagccgggag	cagctgtcgg	agtacctgac	cgtgggtgatc	ttcacccgct
67141	ccgcccagca	cgcccggttc	aacttcggcc	aggtaggcag	ggccggggccc	gctgggcagg
67201	gctcccttct	caaggccgct	gcctcctccc	ccgcccgggt	tctgcacgcg	tactgcaccc
67261	ctggagacgc	tcggggcctg	gcaaggagct	tgacggatgg	attctgcccg	ctcagccaag
67321	ggcgctggcc	gcggggaaag	aggatggacg	gactgcaggg	cccgctggag	ttgggggggca
67381	cggggaggac	ggggcccagg	gggcagctgg	gcagcagggc	ttcggggggtg	cccacgcttg
67441	ctggcggtcg	tctccgcagt	acgactgggtg	ctcctggatc	cccaatgcgc	ccccaccat
67501	gcgagccccg	ccaccgactg	ccaagggcgt	ggtgaccatt	gagcagatcg	tggacacgct
67561	gccccagccg	ggccgctcct	gctggcatct	gggtgcagtg	tgggcgctga	gccagttcca
67621	ggaaaacgag	gtgaagctgg	gcagggcggg	gcacagcccc	aggtcacccc	aggttaagcg
67681	gttccctcagc	ctcagggtct	tgtgactcgg	gccccaggc	tcacttggag	caaaggaatc
67741	gttcttccca	aggctggaag	ggcccagaag	gctgcagccg	ccaccaggtc	ccccggcctc
67801	agcctggaca	gagctcaggg	tgtgcagggc	aggagagcac	acagcccagg	ctttgtctac
67861	tgtcaccaga	gggtcgtgtg	tgaagccccc	tccccccagc	tattgacaaa	gttcttgcac
67921	atgtgtttta	ccctggtaact	ccagagggaa	tgaccaagag	tttcttgggt	tccttccgga
67981	caagtgcata	tcattttaacc	taacaactga	atccgggtgtg	tcttctgtga	tgcacccgct
68041	ttggggtagc	tcagtactgc	atagaatggc	cggaccagtc	caacctgtct	cagactgtctg
68101	ggtgtctgag	ttgttcccgg	ccaatgtgtt	ggtccctcac	tggacatcct	tgtttttgtg
68161	gctttgocaa	tgtgttcagt	atgaccgcac	acattcctag	cagacaaatt	ccttgggtcaa
68221	agaatatattg	tactgaattg	ccctccacaa	actaaattca	aaatccatt	atcaatagcc
68281	tatgttttctt	ggacctttcc	agctcagaag	ctttgtgatc	ttaatccaat	acagtatttt
68341	tttaaaatga	tatctagctc	tgccccgcag	acatctgtgt	gagaatgcaa	ataagcacag
68401	gaccccaaca	gggcagccac	cccttcaggc	tccttgggcc	gctttctgcc	ttcctgggct
68461	ggagaggcca	gtgctggccc	cagcgccctt	gatgggagg	gagagtgtctg	cgcaggggtg
68521	gccccagaca	gcaggatacc	atggctgcaa	acaccagcag	ccccagctt	catctgcac
68581	atctcgtaac	cacttggcag	caggcagtta	ttttccact	tatccatgaa	gccccagccc
68641	tggagccttc	cttagagaag	caggttggag	gcgacgacac	ttgccttccc	gaggccctct
68701	tgtcaggcag	cagagggtga	atatggggag	gtgaatagat	gctccctcct	tcatctccca
68761	aacgggtggct	ggcccccttg	gatgagacag	gcctgtcagt	ttacacgggt	agtggattga
68821	cctatgtgtg	tgtccatgtc	tgggcccctca	gctgttctg	ggcatgtacc	cagaagagca
68881	ttttatcgag	aagcctgtga	aggaagccat	ggcccgattc	cgcaagaacc	tcgaggccat
68941	tgtcagcgtg	attgctgagc	gcaacaagaa	gaagcagctg	ccatattact	acttgtcccc
69001	agaccggatt	ccgaacagtg	tggccactctg	agcacactgc	cagtctcact	gtgggaaggc
69061	cagctgcccc	agccagatgg	actccagcct	gcctggcagg	ctgtctggcc	aggcctcttg
69121	gcagtacacat	ctcttctctc	gaggccagta	cctttccatt	tattctttga	tcttcaggga
69181	actgcataga	ttgatcaaag	tgtaaacacc	atagggaccc	attctacaca	gagcaggact
69241	gcacagcgtc	ctgtccacac	ccagctcagc	atttccacac	caagcagcaa	cagcaaatca

FIGURE 2 (cont.'d)

69301	cgaccactga	tagatgtcta	ttcttggttg	agacatggga	tgattatatt	ctgttctatt
69361	tgtgcttagt	ccaattcctt	gcacatagta	ggtacccaat	tcaattacta	ttgaatgaat
69421	taagaattgg	ttgccataaa	aataaatcag	ttcatttaaa	atgggtcttg	ttccatgtgt
69481	tatattccaa	tcaccccaaa	cagctcactg	ccatctccca	caccaagaga	aaaaaaaagc
69541	catagtcacc	gtgattttat	caaggcaaaa	gcctcccccac	ccaagtctgg	atagaagggtg
69601	ctttttccct	caagcagtg	ctactctctt	tggaaacacat	cccaaatgtc	accacctctg
69661	ggaaggcatc	cttgggttct	gtctctaccc	tggatttgct	agaacctctg	ttcttgcccc
69721	ctctgtggtc	tctcccttgg	gacaggagcc	cctggaagga	cagaaaaccc	actttattta
69781	tgtctgtgcc	ccagggtctg	cataaggcac	cagcactcag	ctgttctctc	cttttccctcc
69841	tggaaagggca	cctagcta	ggatattagg	cattgtcttg	ggagctgggg	gcttattttt
69901	tcctgaggca	gggttcttaa	catgacataa	aaaataaaaa	tgggcagggc	gcggtggctc
69961	acgcctgtaa	tcccagcatt	ttgggaggcc	aagggtggag	gatcatttga	ggtcagaatt
70021	caagaccagc	ctggccaaca	cggtgaaacc	ccatctctac	tgaaaataca	aaaattagcc
70081	aggcatggta	gcaggtaacct	gtaatcccag	ctactcagga	ggctgaggca	ggaaaattgc
70141	atgaacctgg	gagacagagg	ttgcagagag	tggatatcgc	accactgcac	tccagcctgg
70201	gcaatagagc	gagactctgt	ctcaaatagt	taataaataa	ataaattaaa	ttaaataaaa
70261	acgcattctc	tttccccagc	cccaagtagc	agagcccgct	ctgagcctgg	gcatggtgac
70321	ccattctcct	cgtgctcaca	tgccccactc	ccagccctcc	agccctggc	ttcggaatca
70381	tgtcatcagg	gtctcccatt	tctctggaag	gtgcttccag	tgtggcaggc	catcagctca
70441	gtgtctgggt	aaaggcttct	acagggccag	catggcatag	gggggagggtg	tgcatgcggt
70501	cctgaagcca	caaggtcttc	tgaggagacc	tgactatttg	ggtggggact	agagactgag
70561	gtccagcccc	ttaatgcccc	agactccctg	ccatccctcg	gagaatttcc	caccacactt
70621	atgaatgatc	ttcgggagac	gtgacataaa	catacagcta	tggtagagggc	attcagctcc
70681	atgccactgt	gagaatgaac	ataccaactt	ttaggcaaca	aggccatgtg	gtcaaggaga
70741	gaggagaaac	gaataggagt	aggcaggggt	ggtgaagcag	gtctgacatt	ggcaaaagtg
70801	acagagaagg	attgggttgg	aagggtctca	gatggcagag	aacctctgaa	aaagtctcat
70861	gccagcta	gaagagtcct	caaagtcacc	atcacagaaa	tottacatct	ggcagaaatg
70921	acagcaatag	tttggcatga	acccccacagt	ggatccaaac	gtgtggcagc	tgagatcgtc
70981	agttaattat	gttctctgca	gctggtcctt	ctggttccct	ggagctgggt	atctgagtag
71041	cacagctcca	ctgctaccac	aggagaggga	gaatcccaaa	ttctgtgcat	agactgtcta
71101	aacctctgga	tgacccttaa	gacacatgta	cataaggcaa	actgcaaaca	gccccattta
71161	ggataaaaca	gcctgtctta	ctctgtttgt	gctgctataa	taaaatacct	cagactgggt
71221	catttatata	gaacagaaat	tgattcctca	cagttctgga	ggctggaagt	ctaaggaggag
71281	gcactggcag	tttcagtgct	tggtaaggga	gggatcagtg	tctgtctcca	agaggatgcc
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71701	gtcaggagtt	cgaaaccagc	ctgaccaaca	tgggtgaaacc	ccatttctac	taaaaataca
71761	aaaatttagcc	aggcggccgg	gcgtgggtggc	tcatgcctgt	aatcccagct	ctttgggagg
71821	ccgaggcggg	tggatcacaa	ggtcaggaga	ttgagaccat	cctggccaac	acagtgaaac
71881	cctgtctcta	ctaaaaatgc	aaaaatttagc	tgttgagact	actcgggaag	ctgaggcagg
71941	agaattgctt	gagccgagat	cgtgccatcg	cactccagcc	tgggggacaa	gagcaagact
72001	tcgtctcaaa	aaaaaaaaaa	gaaaagaaat	tttctggatt	aggataatgt	tctatatattg
72061	gataagggtt	taggttacct	agatagatac	atttatcaaa	agtcatacaa	tggtagactt
72121	cagatgtacg	catgtcactg	tatgtaaata	ttaccccaaa	atcaacaaga	accatgagca
72181	aatactgact	tctagtgaac	gacatgcata	ctgaaacttt	cgtagtgaag	tataattatg
72241	gctgcagttg	actctgaaat	acataaaaaac	ctaagttgat	gggtgaatac	agtgattaat
72301	agatagaaat	ctgtggtaaa	gcatacggag	aaaaatgtta	attgtagatt	ctagggttta
72361	tatatattct	cactatataa	ttaaacgttt	ttatgtttta	aaatttttat	aatgttgaaa
72421	aaccatgaaa	tcctaccta	cgcagtaaga	caagaaaaag	agataaaaag	tatatgtact
72481	gggaagtaag	aaataaaaacc	gtctttgtta	gcagatgaca	tgtcatcta	tgtagaaaaat
72541	ccaaaagaat	ggataaagaa	actcctggaa	ctaataagtg	gttacagtaa	ggttgtagga

FIGURE 2 (cont.'d)

72601	tacaaggtta	atatacaaaa	gtcaatcact	ctcttattca	ccagtaatga	acaagtgga
72661	attgaaattc	aaaacaaaat	actattttaca	ttaataactcc	aaaaatacat	acttaggttt
72721	aaatctaata	aaatacatac	aagatcttta	tgaggaaaac	tgcaaccctg	atgacagaaa
72781	tcaaagagaa	actaaagaaa	tagacataag	taaatattcc	ccagaaaagac	tcaatattgt
72841	caagatgtca	gttctttcaa	acttgacct	tagattcaat	gcaatcctaa	tcaaaatctc
72901	agcaagttat	gttgtggata	ctgacaaaact	tattcttttt	tttttttttt	ttttttttga
72961	gacggagttt	cgctctgttg	cccaggctgg	agtgcagtg	cgcgatctcg	actcactgca
73021	agctccgct	cccggtttca	cgccattctc	ctgcctcagc	ctcccatgta	gctgggacta
73081	caggcacg	ccaccatgcc	cggtcaattt	ttgtattttt	agtagagacg	gggtttcacc
73141	gtgttagcca	ggatgggtct	gatctcctga	cctcgtgatc	caccctgtct	ggcctcccaa
73201	agtgtgga	ttacaggcgt	gagccaccgc	gcccggccaa	cttattctaa	aatttagata
73261	gggaagcaaa	agacccagaa	cagctaacac	aacaatatag	taggaaaaca	acaaatttgg
73321	aaaaatggata	ctacccaact	ccaagactta	ctataaagct	acagtaatca	agatagtgcc
73381	gtattggtga	aagaatagac	aaatagatca	atggaaacaga	atagagagcc	taagaatatag
73441	accttcataa	atacagtc	ctcatccttg	acaaaagtagc	atagacacta	caatggagca
73501	aagattgtct	tttcaacaag	tgggtgcagga	acaactggat	atccacatgc	aaaaacaaac
73561	aaacaagcat	gaatctagat	acagacctta	tgctcttcac	aaaaattaac	tcaaaatgga
73621	ttatagatct	aaatgtaaaa	ttcaaaacta	taaaattccc	ataacatagg	ataaaatcta
73681	gatgacctag	gtatggctat	gacttttttag	acataacacc	aaagccatgg	tccatgaaag
73741	aaataattgg	taagttggac	tttaattaaaa	ttaaaacctt	ccgctctgca	aaagaccaca
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73861	tacaaagcct	tcttaaacctt	aacagtaagg	aaacaatctg	attgaaaaat	gggccaaaga
73921	ctttaacaaa	caaaagaaga	tatacaaatg	gcaagtaagt	atgtgaaaag	aagctgcaca
73981	gctggggggc	gtgggtggctc	acgcctttta	tcccagcact	ttgggagggtc	aaggcgggca
74041	gatcacctga	ggtcaagaga	ccagcctgtc	caacatggaa	aaacctgtct	ctactaaaaa
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74161	gcaggagaat	cgcttgaacc	cggaaggtgg	agggtgcagt	gagccaagat	cgcgccattg
74221	cactccagcc	tgggcaacaa	gagtaaaact	ctgtctcaag	aaaaaaaaaa	aaaagctgca
74281	ctattctatg	tatcagggga	atgcaaatgt	agaataacgc	aataacaaga	taccactaca
74341	tacatattag	aattggccaaa	attgagaaca	ctgacagcac	caaatgtgga	ggaggatgtg
74401	gagcaacagg	aactagagag	aatgcaaaat	ggtatagcca	cttaggaaga	cagcttggca
74461	gtttcttaca	aaactaaata	tactcttacc	acacaatcca	gcaatcacac	tccttgggtat
74521	ttacttacat	cccaacaaaa	accctcatat	ggatgtctag	agcagctttg	ttcataattg
74581	tcaaaacttg	gaagcaacca	aagatgccc	tccgttaggtg	agtaaaataa	taatattccag
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74761	gatatgat	tgagaaaaag	gcaaaaactgt	ggagacagta	aaaagattgc	caggggctag
74821	ggcagtgga	gggatgaata	ggcagggcac	agaggatgtt	cagggcaata	acactactct
74881	gtatgacact	ataatgttgg	atacatggcc	agatccacag	aatgtagaac	accaagagtg
74941	aaccttgaac	tatggacttt	gagtgatgag	gatgagtcag	tgtaggctca	tggattgtaa
75001	taaatgcacc	actgtggggg	gggggggata	ttgataactg	gggggctgta	catgtgtagg
75061	gacaggagta	aatgggaaat	ctctactttt	gttaccgggtg	gaggggtgtac	cgcattttga
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75181	tattgaaaac	gaaagtacac	tccacagggt	gggagcaggc	ctaagcaggt	ggctcaaggg
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75481	aaaaatgaaat	cttttaaaaca	agaaaaataa	cttataaatt	gcaaatatgt	gtcacttaca
75541	taaaaacaaa	gaattagtgt	ccctacatca	ggaaaaaaac	acctataatt	caatgtaaaa
75601	atgcacaaaa	gccaagagaa	atggccaagc	catggaaatt	cacagaagta	gaaataggca
75661	gtaaataaac	aatgctcaat	ttcatattatc	tgagaaatgg	agagtaaaac	ttcagtgaca
75721	tacaaaggag	taacaatcat	tttaggaaca	attttaaaaa	taacacttgt	gatgtggctc
75781	aggaaagatt	catatttctca	ctgtaggaag	gtaagtgaat	catttttagag	gtcagttttg
75841	caacttagaa	gatcaaatgc	atctaccctt	tttctacttc	tagaaatgta	tcttcagaag

FIGURE 2 (cont.'d)

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75961	gcagccttgt	ttctaatacc	aaaaatcagt	aaacaaccta	aaaatctgta	tccatgagga
76021	tttaaagaaa	tcctgcatga	gttagaaaaga	ataaggtaga	tgccctgggtt	ctaacataga
76081	aaatatcaaaa	ctggttggtta	gatgaaaaaaa	gcaagttgca	aagtgaggta	atgtgtaaat
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76201	atgcctccaa	ctgcatagct	gtggctccgg	gagcaggacc	ttgtaacaga	gcctctgccc
76261	ctgactgtcc	tgaggggcct	ttccctggga	aaggaaaccag	gtttgatttt	cagtctcttt
76321	tgttatcacc	atgctgacag	ctttgcttgt	catatgcctt	tcctccgct	gtactgattt
76381	tacottacag	aagctctcct	tagtgcttca	tcagacactc	cctcttttcc	aaagaaaaga
76441	cagccgcatt	ccatggtcat	ctggttgagc	tcgaggtgag	ccccagggat	catgtgcctc
76501	ccaccaggct	gacaccccag	tggtgaggag	ttgccccttg	gctttttcga	ggccaagcaa
76561	ctcagagggtg	tggcaggatt	gcatgtcaca	gtggcacttc	caaggccctg	gagagtgact
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76681	tcacactgac	agagttggca	agcttttccct	ataaaggggc	acacagtga	tactgtaggc
76741	ttgttaggcc	atactatctg	tcccaacaat	tcaactttgc	ccactgtagc	tgtgaatcaa
76801	ccgtagataa	tattaagtga	atgtgcaactg	ctgtttgcta	atagtttatt	gacaaaaaca
76861	gctgcttttg	agcagtttgc	taccccgaca	gagactgttg	ggagtccctg	gtggcagcga
76921	gctacaggca	gccagtaccc	catcagtggtg	gctggttcca	tcctctcaag	cctgcctgca
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77161	cccacacagg	ctcagcagct	ctgcgggcct	gtccccacc	tggagctgca	ggcctccact
77221	cctggggaca	gctgtgacca	tggtctctgca	aagcagcctt	gtgcctagct	cccaagtcag
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77761	cacccccgac	acacgtgtct	gagggaggct	gaggaaaaca	gacacctcca	ggagccgcct
77821	actattttcct	gatgtgtaag	ccagacaacc	ctggaaagga	ggtcagggaa	ccggagtgcc
77881	tgccaacgtc	cccagcctcc	ctgcagcaaa	acactctcat	ggcaaaaactc	ctttttaaag
77941	aaaggcttta	ttgctgcaat	tagacatccc	agtgtatagc	acaaaaccccc	ctgtacagag
78001	aattattcaa	gtgtaatac	tgagaaacag	tgaacacaca	caaaaagaata	caaaactaga
78061	cattttagatc	actagaaact	ttctaaggta	agaaaaattt	caaattgtgaa	gtgcctttta
78121	gaaactacac	cacacatgcc	agtgtaaatt	tggtttaaca	atcaatttct	ataaacattg
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78241	atgctttttat	ttccctatgt	tttggtcttt	ccttgggcta	gagacagaag	ctgcatgttt
78301	caaaccagat	tcaaaaaggga	aagcacttca	aaacagaaag	tacttcaatt	gtgtatttgc
78361	cttcagccac	atccagagac	ttgtggatct	caccgggttg	gtcccagccc	ttctccaacc
78421	ctgaagccca	cagcaggggt	gcagaggcag	ccccagatcg	tgcagacatc	acccgaggct
78481	cccaaaactgg	cccagctgcc	tgaggcctgc	atgcctgtgg	ccaggtagga	cacatgtgca
78541	ggtttgaaaa	ctaggcctac	aagactgaag	agtggactga	agcaaaaagg	ggagaaacat
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78781	ccttccctgg	cctacaaata	ccaggcctcc	tggccctgag	acctcattct	gggtttctat
78841	atgggtcaac	caaatgccat	cctttcacta	aaccaggtg	caaaatgggg	ggggaagggg
78901	ggaagctggg	gagtacacag	cacccaaaag	aaccgagaga	gcaagttttc	caaggctaca
78961	ggaacattgg	cagagctggg	ggccacacca	gatgggagta	ccacatcccc	accaggcttc
79021	atgcttcact	gctagatgca	gggggctaga	agggctctgat	gaatcaggag	ctgaactaga
79081	accttcaaga	aaagaaaagg	caaggggggtg	gctctgtgcc	ccgccaggag	aggaaagaag
79141	aatgtgtgtg	gattgtccac	agtgaggcca	gaaacgatga	gatggtgtta	ggcagaaaaag

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FIGURE 2 (cont.'d)

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79321 cctaccta gcactttctt gtctacagga agtcttgggt cttttcaagt tcagcataag
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79561 gtggttgctt ggggtcccca ggctgagaag gggtatgggt aattgcactt cggggcacag
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80161 ccatttgatg gtagtgattt tggttttgtt ttatgaaaat ggtacagggt gtaatccctg
80221 atgacagaat gcactgagag tggggccaag ggcctgaag gatcctgtct gttcagtctg
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FIGURE 2 (cont.'d)

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82621	tcctaatacga	atgcccttta	tttccttctc	ttgcctgatt	gccctggcta	gaacttccaa
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82741	gaatgcttcc	agtttttgcc	catgatgtat	gatattggct	gtgggtttgt	catagatagc
82801	tcttattatt	ttgagataca	tctcatcaat	acctaattta	ttgagagttt	ttagcatgaa
82861	gcgttgctga	attttgtcaa	aggccctttc	tgcactctatt	gaaataatca	tgtgggtttt
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83341	attcagagat	tcactctctt	cctgggttag	tcttgggagg	gtgtatgtat	ggaggaaatt
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84181	tgacttcaat	ctcatgggat	catttgtaac	ttctgtctc	gttgatctgt	ctaatgtga
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85321	gtttcttgga	ggctttgttc	attttttttt	tcttttttct	ctaaacttct	cttcattgct
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85501	atttaaggac	ttctctgcat	tgggtattct	agtttagccat	tcacttaatt	ttttttcaag
85561	gttttttaact	gctttgccat	gggttcggac	ttcctccttt	agctcagagt	agtttgatca
85621	tctgaagcct	tcttctctca	actcgtcaaa	gtcattctcc	atccagggtt	gttctgttgc
85681	tgggtgaggag	ccgtgttctt	ttggaggagg	agaggcactc	tgatttttag	agcttccagt
85741	ttttctgctc	tgtttgttcc	tcactcttgc	ggttttatct	acctttgggc	tttgatgatg

FIGURE 2 (cont.'d)

85801	gtgacgtaca	gatgggggtt	tggtgtggat	gtcctttctg	tttgtagtt	ttccttctag
85861	aattcaggac	cctcagctgc	aggtctgttg	gagtttactg	gaggtccact	ccagaccctg
85921	tttgccctggg	tatcagcagc	agaggtctga	gaacagtggg	tattggtgaa	cagcaaagtgt
85981	tgctgcctga	tcattcctct	ggaagttttg	tctgagagga	gtaccagacc	gtgtgaggtg
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86281	gtgggctcca	gccagttcaa	gcttcccggc	tgctttgttt	acctaactca	gcctgggcaa
86341	tggggggcac	ccctccccc	gcctcgctgc	cgctttacag	tttggtctca	gactgctgtg
86401	ctagcaaaga	gtgaggctct	gtgggtgtag	aacctccaa	gctatgtgtg	ggatataatc
86461	tcctggtgtg	ctgtttatta	agcccattgg	aaaagcaca	tattagggca	ggagtgaacc
86521	aattttccag	gtgccatctg	tgaatgcttt	ctttgactag	gaaagggat	tccttgacct
86581	cttgcccttc	ccaggtgagg	tgatccctca	ccctgctttg	ggtcacgcac	ggtgtgctac
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86701	tggaatgtg	gaaatcacct	gtctttgtga	tcgctcatgc	tgaggagctg	tgagggaac
86761	tgttcctatt	cagccatctt	ggctccacgt	atatccactg	ccacacttct	ttagtataa
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87301	tgctgagatc	acccatttgt	gagcactcac	atgggatcca	aatatcttca	cagggttttg
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87721	ccatgaggcc	atcggtgcag	gctggggaag	agaagggtgg	gtggcagttg	tgagagccat
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88261	ggcagccttt	tgagtcactc	gataaatggg	cctgagtaac	acaccctaat	gaggaaagtg
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88921	ctgtcttatg	cacatgccaa	atgggagagt	tgaatggggg	tgtgatgaaa	atcaccacc
88981	ttgcgccttt	caagtccctt	atcatgctgc	taatctctgc	aatccctcca	gggatgtgat
89041	attgtttttg	atttaccatt	tttctaggtg	gaggcagctc	taatgccttc	catttggcct

FIGURE 2 (cont.'d)

89101	ttcccacccat	aataggccctc	accctaccag	tcagggagcc	aatgtgggtg	ttcttcacgc
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89221	cctggggacc	cattggaccc	actgtaagtc	agacctgagc	taaaactcca	ttaattacct
89281	cacctccata	agctcctgct	ttaactggag	gaccacaatg	acgttttgag	tcccttagaa
89341	ttaacgtcag	ctcagagcta	gtgtcctgta	atcccccaaa	tgactgataa	tttccctttc
89401	cccaatgcac	agttaccttg	ataaaaaggct	ggaggtctcc	ttgggaaaaa	atgggagaaa
89461	gattaacagc	ataaattggt	ggtagtgtag	tgggctcctt	ccttaatggg	acccaacttc
89521	ccttttattc	aaggggtctc	gtgtctgtaa	actggctcaa	gtcaaaaatt	gattgagggg
89581	ccatgattct	ctatttttat	aattcaaagt	agtgtttgt	ccatttgacc	tggaggtttt
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89701	actgtgatta	attagcgaat	gccagaactc	tacatgagtc	agactattct	gattgctgct
89761	ttgccactac	tgtctgttat	ggtagtattg	cccaccttgc	ctttgatggt	tgagtgccac
89821	cacttggcct	ctgccacctt	gggatccaat	tattcccatt	gtatttacct	ttattagtgt
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91681	acctaggatc	aatactttgc	atccttcaat	ccaatcaagt	tgacactcag	tattaacctat
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91861	tctgagccag	cttattataa	tgtttttaaat	aatattcaag	aattgttaca	attgcatttt
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92161	ggtcaaatct	ctattgcttt	aaaactttgt	ggttttgcct	cattatctcc	catgattctac
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92281	ttgggtgttc	tttgggtctt	ggaagttttc	tttaatactc	tctttaaatt	tgtctgattc
92341	cacttcttgg	ttcccttttc	aggaacacca	agtattcaca	cagtggatag	tcactctgtcc

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FIGURE 2 (cont.'d)

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92521 gcatgcatca atcatccatt cttttacatt gctaagtagt attccatgct atgtatttac
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FIGURE 2 (cont.'d)

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 97981 gctccttaag agtcatcacc actcccta atctcaagtacc cagggaacaca aacactgcgg
 98041 aaggcagcag ggtcctctgc ttgggaaaac cagagacctt tgttcacttg tttatctgct
 98101 gacctccct ccattattgt cctatgacct tgccaaatcc cctctgcca gaaacacca
 98161 agaattgatca ataaaaaaat aaataaataa aaataaaaaat aaaataaaaaa
 98221 aagaaataaaa cacaaataaa atgttaaaat tccatttcta cataaaatca tctatagatg
 98281 tttttaaata tacaacatga ttatcaagga cttaatctgt accacattct tgtagatgta
 98341 aagttaaaaat tcttgtaacc atcactctca accctaccct atcttccagc ataaatgaga
 98401 ctttcacatg ttttctcttg ccagatgga gacactaact gtaggctttg gaaatgtctt
 98461 aaaaaaaaaa aaaaaaaaaa gagagccagg catcttcaaa cagagaaaag ctggttgaaac
 98521 acatttatct aagtctatca aaagctatga ttgttagcaa gaggtaacct tgtaatgcca
 98581 aggcagaaaa ctgccaccaa accacaaaaa gcttgttcaa ctgctgaacc taaaattaaa
 98641 caatttatct ctcatataaa aaaaaaaatc aattaatcca ggagctggtt tttttttaa
 98701 gatcaacaaa atagatagac cactagccag actaataaag aggaaaagag agaagagtca
 98761 aatagacata ataaaaaatg ataaaggaga tatccaccat gatcccacag aaatacaacc
 98821 taccatcaga gaatattata aacacctcta tgcaaaataa ccagaaaatc tagaagaaat
 98881 ggataaattc ctggacacat acacctccc aagactaaac caggaagaag tcaaatccct
 98941 gaataagcca ataacaact ctgaaattga ggtggttaatt aatagcctac caacccaaaa

FIGURE 2 (cont.'d)

99001 aagtccagga ccagacggat tcacagctga attctaccag aggtacaaaa ggagctggta
99061 ccattccttc tgaaactatt ccaaacaata gaaaaagaga gaatctccct aactcatttt
99121 acgaggccag catcatcctg ataccaaagc ctggcagaga cacaacaaaa aaagaaaatt
99181 tcaggccgaa atccctaatt aatattgatg caaaaatcct cagtaaaatt ctggcaaac
99241 gaatccagca gcacatcaaa agccttatcc accatgatca agttggcttc atccctggga
99301 tgcaaggctg gttcaacata tgcaaatata tgaacgtaat gcatcacata aacagaacca
99361 atgacaaaaa ccatgtgatt atctcaatag atgcagaaaa gaccttcgac aaaattcaac
99421 agcccttcac gctaaaaact ctcaataaag tagatattca tggaaatgt ctcaaaaaca
99481 tcagagctat ttatgagaaa cccacagcag ccaatatcat actgaatggg caaaaactgg
99541 aagcattccc tttgaaaact ggcataagac aaggatgcc tctctacca ctctattca
99601 acatagtatt gggagttctg gccaggcga tcaaggcaaca gaaagaaatg aaggatattc
99661 aattaggaaa agaggaagtc aaattgtctc tgtttgcaga tgacatgact gtatatttag
99721 aaaaccccat catctcagcc caaaatctcc ttaagctgat aagcaacttc agcaaagtct
99781 tgggatacaa aatcaatgtg caaaaatcac aagcattcct atacaccaat acagacaaa
99841 ccgagagcca aatcacgagt gaactcccat tcacagttgc tgcaaaagaga ataaaatact
99901 taggaatcca acttacaagg gatgtgaagg acctottcaa ggagaactac aaatcactgc
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100021 gaatcaatat cgtgaaaatg gccataatat ccaaagtaat ttatagattg aatgctatcc
100081 ccatcaagct accactgact ttcttcacag aattggaaaa aactacttta aatttcatat
100141 agaaccaaaa aagagcctgc atagccaagc caatcttaag caaaaaatac aaagctggag
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100381 attctctact taataaatgg cattgggaaa actgggttagc catatgcaga aagctgaaac
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100561 gcatgggcaa agacttcatg actaaaacac aaaaagcaat ggcaacaaaa gccaaaattg
100621 acaaatggga tctaattaaa ctaaggagct tctgcacagc gaaagtaact accatcagag
100681 tgaacaggca accaacagaa tgggagaaca tttttgcaat ctatccatct acaaaagggc
100741 taatatccag aatctacaaa gaacttaaac aaatttaca gaaaaaacaa acaattccat
100801 caaaaagtgg gtgaaggata agaaaagact cttctcaaaa gaagacattt atgcagtcaa
100861 caagcatagg aaaaaaagct catcatcact ggtcattaga gaagtgcAAA tcaaaaacac
100921 aatgagatac catttcatgc cagttagaat ggccatcatt aaaaagtcaa gaaacaacag
100981 atactagaga gcatgtggag aaataggacc acttttacac tgttgggtgg agtggaaatt
101041 agttcaacca ttgtggaaga cagtgtggta ttctcatct tcaccacggg gtggagggtac
101101 gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn
101161 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn
101221 aacgcataatt cctgaaaggg atggcaaggt ttttttaaag gttttatggg tttaggtgta
101281 ctctaaagga ttttaacctc tctaaaatta tttttgtata aagggtgaag aaagggatcc
101341 aacttcactc ttttacaaat gggaagccag tttttcccg cccctttttt taaaaaggat
101401 tccctttccc attggttggt tttttcaagg ttgtcaaaga tcagaagggt gtagatgtgg
101461 gttggttaatt tttaggggtt tgttttggtc ccattgggtc ataggtcggg tgtggtacca
101521 gggccatggt gttttggtta ctgtaagcct cgtagtattg tttgaagtca ggtagcatga
101581 tgectccagc tctgttcttt tggcttagga ttgtcttggc aatgcgggct cttttttggg
101641 ttccatatga actttaaagt agttttccc aattctgtgc agaaagtcat tggtagtttg
101701 atggggatgg cattgatcta taaattacct tgggagtatg gccattttca tgatattgat
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101821 gagcagtggt ttgtagttct ccttgaagag gtccttcaca tcccttgtaa gttggattcc
101881 taggtatttt attctctttg aagcaattgt gaatgggagt tcaactatga tttggctgtc
101941 tgtctgttat tggatatata gaatgcttgt gatttttgca cattgatttt gtatcctgag
102001 actttgctga agttccttat cagcttaagg agattttggg ctgagacgat ggggttttct
102061 agataaaaa tcatgtcatc tacaacagag gacaatttga ctctctctt tctaatttga
102121 atacccttta tttccttctc ctgcttgatt gccctggcca gaacttcaa cactatgttg
102181 aataggagtg gtgagagagg gcatccctgt cttgtgccag tttcaaagg gaatgcttcc
102241 agtttttgct ccttcagtat gatattggct gtgggtctgt cataaatagc tcttattatt

FIGURE 2 (cont.'d)

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102301 ttgagataca tcccatcaat acctaattta ttgagagttt tcagcatgaa tgggtgttga
102361 attttgtcaa aggccttttc tgcattctatt gagataatca tgtgtttttt gtcatttggtt
102421 ctgtttatat gctagattac atttattgat ttgcgtatgt tgaaccagcc ttccatccca
102481 gggatgaagc ccacttgatc atggttgata agctttctga tgtactgctg gattcggttt
102541 gccagtattt tattgaggat ttctgcattg atgttcatca gggatattgg tctaaaattc
102601 tctttgtttg ttgtgtgtct gccaggcttt ggtatcggga tgatgctggc ctcatataat
102661 gagttaggga ggattccctc tttttctatt gattggaata gtttcgcca actgacatga
102721 tttttaaaat tccctatagg gtcaatgtgc agattttaaag atccctacac tcagtagtcc
102781 tgggataggg tcgggggatc catatgttta acaagcagcc tagagtctcc cgatagcctg
102841 ggcaagcttt aaaaagccct gcggacattc ggatgaaaca aaggtgcaca gaacctatat
102901 ctctgccatt tattagctgg gggccttagg caaggaagggt agtcaacctc ogtattcctc
102961 agttcctcaa ctgtaaaatg gggatgatga ctgtggctcc ctctgggggt tgtgacggag
103021 gaacagggga catatgtcct gggatcagca ctggcaattt ggccattctt accatagcac
103081 ctgccatctt ggtgacagcc tggacacaaa gccttcacac ctttgaagtg gccatagaga
103141 gcatgagata tggatgggga ggaggcattc caactaaaga cccctgcttt gggccaaaaa
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103261 ctgcaattgt gcgttgagaa tccactctat ggccaacata tcatcaaagc gtttggtcctca
103321 gctaggctgt tcccccaacc caaggacccc atgaggaaag gagtgagggt tccaccccca
103381 gcaccagcca ctggaggggc tgccagaggt cctcagttc tcgtaaactt acgctttgga
103441 gtaattcaga acaaagtcca ctcttttttc actatcaaac tggatatcac ggggtaaattc
103501 cttgtggcat ttggcatcga tgcctcaagg gaagccaggg ttccactcca tccatctgag
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103621 ggcgcccac actgtcagac gatgttacac agggagattg atgtactcaa aataaagtc
103681 acacatcata ggctgacctt gtgtccagta aggttctggg acctctcca aagtccagtc
103741 gcaccaactt tgctgtgccc tgagcatcag agtgggaacc ctgagactgg gcttatagtg
103801 gtacagggtg gcaccactgc ataaaaagtt ctgtaggtag tctagggaga cctcacttac
103861 tagaggtgac attgaacagt agaggcctgc cttgccagtc actggaggta gaaggtatta
103921 aggtgcccc gccacgcccc acctggacat ccaccattct gccacttga tcagtgtgtg
103981 ccctggactg cgtgcatgtc ctgcatgtgg catttgggga aatgggacag ttcttctgccc
104041 ttcacaatag gacgacacgg cagcaggtgg cctgggagag ggaccacggc ttcttctgccc
104101 aaaaggcttc cctctctcac ctgctggcca atagcagctt tagagattat tacaatcaaa
104161 acagcttccc caaagacaag ccacggactg catccagtaa acatgctcag atcctgacat
104221 ccttgaaacg tatcccgtag cattgggcat ttgtgttttt gaaaaatgtt tattttgctt
104281 ttttgtttac ttattgagta aacttaaatt gtgaaaatgt cagaggtgtt tgaaccacag
104341 caactccatc ttgaataggg gctgggtaaa ataaggctga gacctactgg gcagcattcc
104401 caggaggtta ggcattctaa gtcacaggat gagacaggac attgatgcaa gatacagggc
104461 agaaagacct tgctgataaa atgggtgtgt gtaaaagaagc cggccaaaac ccaacaaaac
104521 taagatggtg atgaaagtga cctctgttca tcctcaccac tcatttatatg ctaattataa
104581 tgcattagca tgctaaaaga aactcccacc agtgccatga cagtttataa atgccatagt
104641 aatgtcagga agttacccta tatggtctaa aaaaggagg aaccttcagt tcttggaatt
104701 gccacccct ctcttgaaa actcatgaat aatccactca ttgttttagc catgatcacg
104761 aagtgactgt aagtatgctc agtcgagtag cccatgctac tgccttgccc atggagtagc
104821 ctttctttat tgctttactt tcctaataaa cttgctttca ctttatggat tcaccctgaa
104881 ttctttctctg tggaggtcca agaactctct cttggggctc ggatcaggac ccctttctgg
104941 taacaaaaac aaaatgaaat cctgttagtt tctttgggga gggagaatga ttttggttt
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105061 ccttctttt aaaattttct tttgagagga aagtaaaata tcgagatttt gggctttaa
105121 aaagtcctga gttattttta tatgatcttg tgctttgact ttccccaat cccaactgtc
105181 acagtgtcct cttggcccag tagcctctcc ttaggatcac aagaagtga cagggaccgg
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105301 catttctcac tgttggttta tttagaatat tctacgtcct cagattttta gaaaacctc
105361 catttttgct gtttgattta atgccaatga tagtatatta acaaggataa aaatgtggac
105421 aagctctacac attttttgtt tgtttgtttt ggaaaatgac tcaaggcacc tccaatatat
105481 atctaaaatt gagccattca gtacgctcac tggtagtaat gatcaattaa ttagctatca
105541 ttagtcatat caattttaaatt attactgatg attttctctt tgcctggaca gttcaagggc

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FIGURE 2 (cont.'d)

105601 tctagttaat tttaaaagct cagtggagct agatgttttt cagtatgtaa acaatgagcc
 105661 atgcaagggc atctgtgcca gcaaatggca ttaatgtttt ctttaagtga tagtccactt
 105721 ggacggatgt ggaatacttc ttcagcacca aaaagacott cttgccccat gccctgccct
 105781 ggtctatgga ggggtggcagc accaatgggc agaaatgccc cacttggtgtg gttagaagat
 105841 gatggcctca cagcacatgg agacaggaca gcttgcttgc tagttcacta ctgccccct
 105901 gaaaccaaatt gtttatgtcc ctccactgac aggtcactgc tgcttaagag accctgacag
 105961 gctgacctgc acaggagccg aaggcctgca tggccacaga cattaactgg tggagatgga
 106021 atcccaactcc attgaggaag accaagtggg acaccagggc agaaggaaca aagaagtaga
 106081 aaggcatttta atttattgga aaaaaaatga gagagagaga gaaagagaga gagagaaagc
 106141 aagagagaca gagagacaga gagagagaga gagagaaaga gagagagaga aagcaagaga
 106201 gacagagaga cagagagaga gagagagaga gagagacaga cagacagaga gatcctaagg
 106261 ggatgcagtt agtataattg gagtgtaaaa agactttctg taaccacaaa catgatttct
 106321 gaatgaagac ttcaatagag aaacagacaa agagaataat cactgtgaga tgtttgggtc
 106381 cttgtatttaa aagaaaagct ttagacaaat taaatttagc agtttaattg agcaaaagac
 106441 aattcaagaa tagggcagcc cctaaccagc agcaggctcc gagtgacttt gatgctgtct
 106501 catagtgtga taggatttat gggcagaaaa aggaacgtga tgtacagaaa atggaagtga
 106561 ggtacagaaa cagccagatt ggtgatggct cagcatttgc cttacttgag cccagtttga
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 106801 ttaacaccta gaagagagaa ggtgttcatt cgacaactaa ttatggagca cctactatgt
 106861 gccaggaagt gctttgtgca aaatagaaga acatgtaacc caaatacagg gtgaaactac
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 106981 cccctgaact gactgatgga cctccctctt ggccaagggc attccaaagt taacctgaaa
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 107161 gaacagactc ttttagattg ataagaaaca tttacaattg attctacctg aagcctgcta
 107221 cctggaggct tcatctgcat gataaaaaaa tttgtttcca caacccttta tcttaaccta
 107281 gacattccaa gtttttagat aataattctt ttaagcagtt gccaatcaga aactctttga
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 107581 tcttttccatt aacagacatg aaagccagat acagatgtaa tatgcaagga gtaaaagctc
 107641 caaaaggaga gagagtaata tatggagaag tgaaaaaaat caaagaaata aaagaagaac
 107701 tcctttaagc tgaaaaatac ttcaatatct taagtctgtg aaaggaaatt aaattttagg
 107761 accccaaact catttagcca aagggaatg tcaagctggg aactgtgtca tgcaaacctg
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 107881 attttgctca caaggaaatt cctagtgaac cgttaaaatt tcaccatggc aatgcaaatt
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 108841 gttcatcact actaccacta cttgttttgg gaattccaga catggaataa gaaaagaata

FIGURE 2 (cont.'d)

108901	tcagtggtgt	agataatgga	aagtaagaga	caaaattatt	aacattttaga	taatattgagc
108961	acattaacta	accagactca	ctaacaacaa	acaaacaaaa	acaagtgtatt	agaaccaatg
109021	aaagaattca	gtaagggacc	aacacacagt	aaatgtaaga	aacaagtaat	ttacattttat
109081	cccagcaata	tttttgcaaa	cagaaaaata	tcctactcag	aacagcaaat	gctaaatgta
109141	gagtagctag	aaaggtgaag	gacctgcatg	aagaaaaacta	gaaattctat	ggaagtacgt
109201	tgacacagga	tctagagagg	tggaagagaca	cgctgtgttc	ctggatggaa	agactgaatc
109261	tcagtaaaat	gccaaacacat	aacacagtta	tgtgaagtcc	aaagtaattc	tcattatgaa
109321	aaacttaaga	aagaacagtg	agatatgtaa	cagacattaa	cattttattag	aaagttatga
109381	taaccaaaag	ctggtgctgg	ggtctcgagt	agaaaaatag	gctaacacat	aaagtgcgga
109441	aacagaccca	gagactatgt	atacataata	caaaactcgc	caacacttat	ccagtgcctt
109501	ctatgtgcct	actactattc	tctgtgtttt	catggtttta	cctattatct	caaaccoccta
109561	aaaggaaggc	actgttattt	ccctcatttt	acagatgagg	gaagtgaggc	acagacagat
109621	taaacaactt	tcacaggact	ggagaaagtg	ccagtaagtg	tgagttgagc	ccagacactc
109681	gaatccagag	ctcatgactg	ccatcctatg	ccagcttgta	ccgtgggtat	catcatccct
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109861	acgcctgtag	ccccagctac	ttgggaggct	gacgtgggaa	gatggattga	gcctgggtta
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110161	taaaataaag	aactaaaatc	tctgtgtggc	aaagcaacag	aagacaaata	ataaatgcta
110221	tacatatgta	acaaacggat	actatcctga	tatagaaaaga	gctccttttag	attaataatt
110281	gaaagaacaa	tagggaaaaa	aagccttata	ataggcaatg	cagtgtatgt	tattagtggg
110341	caggggagtg	cagactaaaa	caaccacaag	gtcttaggga	tttttagact	gtcaaacaag
110401	gtcatcgggt	actgacaaat	gtatggatgg	gcaaaagtat	cttttcatac	acagctggta
110461	ggaccgcaaa	ttacgataca	attttgtgaa	aggatttttg	tcggtatttc	ttaagatgaa
110521	aaaatgctga	tttgttccag	caatctgagt	tctggaaatg	gatctgccat	taattaaagc
110581	accagtacat	caagatgttt	gtacaagggt	ggttcttgga	gcattgtttg	tactgcaata
110641	cccaaaaacaa	acaaacacat	ctacaaatgg	gaaatgaact	gaacgtcagt	gaatagggga
110701	atggctaagt	aaattatggt	gcattcccag	aaggcaagaa	atagtagcag	tttaagaagg
110761	ggaaaatata	tgagatacta	tttcacacgc	aagaatgaaa	acatctgaag	atgcgaagtg
110821	ttgatgatgc	agggaaacag	tgaatctcag	aaacagttac	tggggtgtct	actggcagaa
110881	tgccctttgga	aaacaatcag	caatatctag	aaagcttaaa	aacacgtggt	ctgcaaccct
110941	gcaactctac	ttcttggaat	attccctaca	gtaactcttc	catgagagca	cagagagatg
111001	tgtgagaaaag	ctcactgtcg	cttggttttg	aacagctaga	aattaaagac	agcccgcctg
111061	cccatacagca	ggagagcgga	cgagcgcagt	ggttattcag	atactgatat	gccatgaaga
111121	agtttaactgc	atgaaccaca	tctatctgtg	tcaaccagat	cctcttcaat	acttagtgat
111181	gagtgaaaag	tgcaggtcac	ataatgatta	gattaaatta	tatcgattaa	caaacaccta
111241	cactttgcca	tttactgtct	tgtgtgagtg	tgcatgtaac	acagacagat	gtggtcacag
111301	tgggagagca	caagctgtgg	gctatgacct	gggtctgctt	ctccttctcc	ctgctgtggt
111361	gagtgagtaa	ggagggcctg	caagaagcgc	cagctttctg	acatagtgtg	gactattctt
111421	agtcattgct	ttacttccaa	actctgatct	ggaagcctga	gaaatcttct	gagaaagagg
111481	aactccaaga	ttgtgcagac	agtgcaaaag	tcagtgtttc	ctgaacggaa	gcaaaggagg
111541	gtttctgaaa	aggacagatg	agtggaagga	ggaagaaaaa	aatgattaaa	tctaagaaag
111601	ggggaaacga	tctcaccaga	agccccctgc	tgcaagatta	tgataatggt	aagttagctcc
111661	cagataattg	ggctagtgtt	tgttatctta	gatgagtaga	tagcaaaagtc	taattagagc
111721	cccactaatt	catactaaag	tgttagtggc	ttataacaaa	ttaaatgaat	tttatgggca
111781	ttttatctta	acccagattc	acaggccaga	agtgtctctga	gaactggctg	caggggcttt
111841	gccataggtg	tctgaaacag	ggaggggaagc	caaggaagaa	gcatagaaac	aacagccctt
111901	tgggatggga	ggcagagctc	aagcacaacg	tgtgcactgc	accaggtatg	gaagtctgga
111961	aacacatcat	atggtgctcg	agctgagagg	cttgtgcaca	aatactctaa	aacaaatcac
112021	acattttata	acccttaaca	tgacccacag	cacagcaggt	tactctccca	cacttgatgc
112081	taatggcatg	taagttttat	ttttgatctt	tcaattggga	aatagaatat	ataaaatatg
112141	tatggatatg	tatatatgca	cacacacact	cacacatgca	gaaaaatgta	caaaacacct

FIGURE 2 (cont.'d)

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112201 gtacgaacac catccaggta aaaaatcaga acattgtccg taccctcacc cccacctttc
112261 ccaatcaacc ctccctccat ccccggaat gaccatcctc ggctttatga taatcatttt
112321 cttgttattg ttttaaggttc cgctatgaca cacctcccta aacaatttca ttccaaagtt
112381 atgaattggc cagacacgct cctggcttct ttccttcaac actgcgtcag tgagggttgt
112441 ccatgttagc agcagtttgt tgattttcct tgcagtgtag aattttcctt gacaatttgt
112501 ctgttctact gtttgttggg cattgagttg ttgccatttt ttggccatca tgagtaatgc
112561 tgttgtgagt atccaggcgc acatgcacac aaatttggat cccactatag gatttctggg
112621 tcatagatta taatgtagct tcagttttat gacatattgc taaattgttt tccacggagg
112681 tcttaccaac ttgtcctcct gccggtggta tatgagtgtt cccagccctc tggatcttct
112741 ttaatactca ggtgttgtca gttgttgaag tgttgcccat ctgggggcac atgtgtggta
112801 gtagcagcag ttcactgtga tcttctgatt tccccgagtc ctaatgaagt tgaacacctt
112861 ttgtatactt gctgcttata ttttgtacag taagtactca aacttcttgc ccattttcta
112921 gtgaatgaca ctccccctct taaagatttg taggtccttc acatactagg aataattctc
112981 gtcaatcact ccatgacttg ccttcaactct ctccctgggt ctttcaatga acagagtgtc
113041 cttatcttga gggaggcaaa cttaccaatc ttttcccttg tgtttaatat gttctgagtc
113101 ttgtttgaaa aatccttttta gcttgagacc tgggaagaata atcacctgta gtctaaatgt
113161 cttacagttt tgcctttaac ttttaagtct aatcaacccc aagctgagtc tctgaatgg
113221 caagaggtgg agtctgattt cttctccttc tccctcagcc ctccgtgctg gctggccctt
113281 gtctctgaga tgcagtgtcc gtggcccagt gccacccatc agccgagccc tccgtagcag
113341 acccagtacc cacatacgtg tggctgtttg ttgtttcttt attctgtttc aaggaatggt
113401 tttgatgaaa aggggggatga agctaagaca gttttgaggt ggggcaattg tgttcttggg
113461 gtgggatttc tcacccttgg acagcagtgg gtggctgggc ataggggaag aaggagctac
113521 agggttgagg gatgctgttg caacttagaa aaattaagaa aatgaagat attgctcagt
113581 tatggcaagt gtttgatgaa acagggaacc atacatggct cgtgaaaact ggttaaagat
113641 tttttttttt tttttttttg agacggagtc tgcctctgtc gccaggtctg gagtgcagtg
113701 gtgcaatctc ggctcactgc aagctccgcc tcccaggttc acgccattct cttgcctcag
113761 cctcccgagc agctgggact acaggcgccc gccaccacgc ccggctaatt ttttgtattt
113821 tttagtagag acgggggttt accgtgttag ccaggatggt ctgatctccc tgacctgggtg
113881 atccacccac ctacgctctc caaatggtta aagatttttg aggagaaatt tgtcaatgta
113941 tactaataac ttttactatt tggtaatttc atatctgggc atctgtccta ggaaaatact
114001 taataatgta tacaaatttc acatacaagg gttttcactt tgcttataag aatacaaaaa
114061 ttagaaaact cctaaatgtc cagggaagct ggggtgttta gtgaatgatg aggcattccat
114121 ccaatggaat agtacataga aactagaata atgtttatga tgagattttg aaaatatggg
114181 aaaaatgattt ttgctacact gctaaagggc agcaaggagg atgcaaagtg gtatatatag
114241 cacaatccca aatttttaaaa agtgaataag acaaagtga aacaattaaa catgaatttt
114301 tatgaaaaag ttcataaaat tcataattca tacagaaaaat aggtattttt ctggctctat
114361 attatttttc ttcttttact tttttgagtt aaaaaaacia cccagatata ctacattatc
114421 cttgttaagaa gttcaactat tgagggatat gttagaaaagt atcacatat tggctcccaa
114481 agggccctcc acagcccagg taacttcaact gtccatgtag aatgattcct tccactttct
114541 tcccttgga gagggcacag actcaaatgt ttccaggggc caaagcagga aatgaaatga
114601 aagaaaacct tgatatagac aacagacaag tgtggactgg ggaagcctga agaatatctc
114661 tgtttactca taagtcaata atgatccatc aaacacttgt agaggctgga tacagcccat
114721 cagccaccca tttccagagg agcactctgt aatgtgttat tatcttccaa aaagctttac
114781 tgagatacat ttacatacca ttaaattcac ccttataaaa tatgctatca aaagatttta
114841 atatatgtgc agagttgtat gtgtaacct cattataacc caattctgaa ataattctcat
114901 cccagagga cactcgaac ccattaaacat tcaactcctg tttccctccc ccaactccta
114961 gtgctaggca actactcacc tactaacctg actctgtggg tttgcctatt ctggacattt
115021 catacagata gaatcacaca atatgggggtc ttccgtaagt gagttttcca tttagcatat
115081 ttttgaagtt cattcagttg ttggcatcta tctgtagttc atttcttttc ttttcttttc
115141 tttttttgaa atggagttct gctctgtcac ccaggctgga gtgcagtggc gggatctagg
115201 ctcaactgaa cctccgcctc ccgggttcaa gtgattctcc tgccttagcc tcccaagcag
115261 ctgggattac aggcgtgcac caacatgccc ggctaatttt tgtatttttg tagacatggg
115321 gtttcacct gttggccagg ttggtctcaa actcctgacc tcaagtgate tgcctgtctc
115381 aacctcccaa agtgctagga ttacagagtg gagcctccgc gcttggcatt catctctttt
115441 tgatgcaaaa aaatatccca ttgtatggat aaactatatt ttgtttatcc attcctcagt

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FIGURE 2 (cont.'d)

115501	taatggaatt	taggttggtt	ctactttttg	actattgtga	acaatggtgc	tataaatatg
115561	tgtgtacaag	ttttgtatag	acatgtgggt	tcaatattct	tgggtagagg	cctaggagta
115621	gaattgctgg	gtcatattgt	agctgggttt	cagattttga	ggaaccacta	aactgttttc
115681	tgaagtggct	gcatcatctt	acattccggt	agcagcatca	gggttccagt	ttctccacat
115741	ccttggcagc	acttgttact	atctgtcttt	tttattctaa	ccattttagt	ggttagaatt
115801	gtatcttgtg	gttttgattt	gaaatttcct	gatgattaat	aatgttgagc	atattttcac
115861	gtgcttattg	gagattcaca	aattttctct	ggagaactat	ttaattaaat	cctttgctaa
115921	tttttaaacg	gggttttttg	tacagaatat	tttaaaattg	agttgtcaga	gttctttata
115981	tattctggat	acaagtccct	tatcagacat	atgatttaga	tattttctcc	attctgtgga
116041	ttgtcttttc	actttattga	tgatgtcctt	tgaagcatag	atcttttaca	ttttaatgac
116101	atctaaactg	tctactttct	tttgtcgcct	gtgctcttgg	tgccatatct	aagagacttt
116161	gccgaacca	agattatgaa	gacttacttg	tatgttttct	tccaagagtg	ttatgttgtt
116221	agcccttact	tttagatcta	tcattccattt	tgaatttaatt	tttaaattta	tctagcagcg
116281	ttattgaaat	ataatgcaca	tactgtaaaa	tttatccatt	taaagtgttc	aattcaagga
116341	tgtttagtat	taatttttac	acaatggaca	accatcagtt	ttagaacatt	ttcatccccg
116401	gcaaaaaggaa	cactgtatcc	tttagctgtc	actcccatga	ccacttcttc	attccctgcc
116461	cctaggcaac	cagtaatcta	ctttatatct	gtacagattt	ttcttttcca	gaaatttcat
116521	ataaaaaggaa	tcatacaata	tatgatcttt	tgtgactggg	ttcttttact	tagcataatg
116581	tttttgagat	tcattccatgt	tgtaacaagt	gtcagtatct	cattcttctt	tcattggtcaa
116641	attatataga	tatactatat	tttatccatt	catccattaa	tggacgtttg	gggtgtgtac
116701	actttttgat	agttacaggt	catgctgcta	taatcatgca	tgtacaagtt	tttgtgtggg
116761	catatgtttc	catttctggt	gggaatatgc	ttaagagtgg	aaatgctgtc	atattgtaac
116821	tctctgttga	acagtcagga	gctagcagac	tgtttcccaa	gcagctgtgc	cattttacat
116881	tcccaccagc	agtgtatgag	ggttctgatt	tctccacatc	cttgtcaaca	cttgttcttg
116941	tcggattttt	ttattctagc	catcctagta	tcaagtggta	tctcattgtg	gtgttgattt
117001	gcatttcta	gatgactaat	gggtccttgg	agaaaatatct	attcagatcc	tcactcattt
117061	ttttcatttt	ttaattggac	tatttgtctt	tattgagttg	taagagttct	ttataaatta
117121	tggatggaag	gcccttatca	gatatacaat	ttgtaaaat	ttcttccatt	ctgtgggtca
117181	tcttttcaat	ttcttgatgg	tgctccttga	aacataaagg	tttgtaaaat	tgatgacatc
117241	actttatcac	tttatctatt	tttcttttgt	tgttgatgct	tttggtgtca	tatcaagagt
117301	cctttgtcaa	atccaaagtc	atgaaggttt	actcctgtgt	tttcttaaaa	gagttttata
117361	gttttagctc	ttacattttag	gtaggatatt	gactcatttt	gtgttaattt	atgtatatgg
117421	tgtgagctaa	ggatccaact	tcattctttt	goatgtggct	atccagtttt	gctaggacca
117481	tttgttgaaa	agactattct	ttctctgtta	aactgtcttg	ctgcttctgt	caaaaattaa
117541	ttggccataa	gtgtaagggc	ttatttcttg	actctcaagt	ctatttccatt	gatctatata
117601	tctatcctta	tgcgatatac	acattgtctt	gaatactata	gctgtgtagt	aattttgata
117661	ttgagaagtg	caagtccttc	atctttgttt	tctttttatc	aagattgttt	tggctattct
117721	gggtcccttc	catttccata	tgaatttgca	gaattgacag	cttgtcaatt	tctgcaagga
117781	aatcagctag	aattttgata	agggttgtgt	tgaacgtgta	cattaatttg	tggggtattg
117841	ccatttttaac	aaaatttaagt	cctctgattc	atgaacatga	aatgtctttc	aacctattta
117901	gatcttcttt	aataatgtta	aacaatgttt	tgtagtttca	ttgtacaagt	ctcagactac
117961	tttgttaaat	ttattcataa	atgtttactg	tttttgatgc	tattgtaaaat	tgaacttttt
118021	cttactttta	tttcacatag	ttggttggtta	atgtatagaa	aaacaattga	ttatcttgta
118081	tcttgcaaat	ttggttggtt	attagttcta	ataatttctt	ttggtgaatg	ccttcagatt
118141	ttctatatat	aagatcatgt	tatttgtaaa	ttgtggtagt	tttacttact	gtactccatt
118201	gtgggtgcct	ttacttatct	ttttattccc	taactgagct	ggctagaccc	tccagtacaa
118261	tgttgaatag	aagtagcaaa	agtgaacatc	tttatcctgt	ttctggattc	agcctttcat
118321	cattaagtat	aatgttaact	gtgaattttc	tttttttgtg	tatgtggggg	gacggagtct
118381	tgcttgcac	catgctggag	tgcagtggca	tgatctcagc	tcactgcaac	ctccgccttc
118441	tgggttcaag	tgattctcct	gcctcagcct	cctgagtagc	tgggactaca	ggcgcatgcc
118501	accacacaca	gctacttttt	gtatttttagt	atagacgggg	tttcaccatg	ttggccagga
118561	tggtctcaat	ctcttgacat	cgtgatccac	ccgccttggc	ctcccaaagt	gctgggatta
118621	cagggttgaa	ccaccacgcc	cagcctaatt	gtgaattttc	aaacctttat	cagggttagg
118681	acattttctt	caattcctat	tttttgagtg	ttttatcatg	aatgggtgtt	ggattttgtc
118741	aaatgccttt	tttgtatgtc	tattgaaatg	attatgtact	ttgttttgtt	ttgttattta

FIGURE 2 (cont.'d)

118801 ctctattgat atggtgaatt caattaattg atttttggat gttaaaccac ctttgcattc
 118861 ctgggctaaa tcccacatgt tcatattggt taatgccttt tatatacttc tggggttaggt
 118921 ttgctagtat ttcgttgaaa atgtttatat ctatattgct aagggatatt gggtttatagt
 118981 tttcttgtga tgcctttagt tttggtataa tatgggtatg agacaatgaa ttgggaagtg
 119041 ttccttctat ttcttaaaag agtttatgca agatcagtat taattcttta aatggttgat
 119101 agaattagcc agtgaagcta tctgggtctg ggcttctatt tgtgggaaat tttagaatta
 119161 gtaattcaat ctctttgggt gtgattgttt tattcagatt aactatttct tcatgagtca
 119221 gttttggcag tttgcgtctt tctaggaatt tgcgcatttc atttaactag tttggtggca
 119281 tgcaattggt catagtattc ttttttatta attttaattt ctgtattgat tttccctcat
 119341 tttatgagtc tcatttttcc ttttttattc attttaattt ctgtattgat tttctcttat
 119401 tgctcatttt aatgggttga atcctctggt cagttggctg aagagtgtgc aattttattg
 119461 ctgatcatgt atcactttta taattgaatt gttataagaa gacataagaa gtaagaggca
 119521 acccctacaa tggagaacat taaggtagac tcaagctttt ctgcccattc ttctacatg
 119581 ccaatatggt tgatccaaag ttattttcat tactctcttc tccatctctt gtctggaggt
 119641 gtaggtaagg tgaagtttgg ggattgtgca cccacactgg gagctggtgc cttggtgact
 119701 ttccagcagt gacaggccat acactgtgga aagggtttat ttcataccat gctcttgaga
 119761 tagaagaaac catggccccc tggccactcg atctgatgtc ataactcacc gatattgttt
 119821 ttgccgtgtt tccagttctt tacgtcgggtg ttgcttgaga atgtgaattt ggtcatctcg
 119881 ggccaacttt gctgtaaaga aagaacaaca tgagaggagc ctgaggaaaga acaataacaa
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 120241 tacattagtt atatctctta atgctatccc tcccccttac cccaccccca tgacagacct
 120301 tgggtgtgtga tgttcccctt cctgtgtcca agtgttctca ttgttcaatt cccacctatg
 120361 agtgagaaca tgtagtgttt gtttttttgt ccttgcgata gtttgcgtgag aagggtgatt
 120421 tccagcttca tccatgtccc tacaaaaggac atgaattcat ccttttttat ggotgcatag
 120481 tattccatgg tgtatatgtg ccacattttc ttaattcagt ctatcattga tggacatttg
 120541 ggttggttcc aagtcctttg tattgtgaat agtgctgcaa taaacatacg tgtgtgttg
 120601 tctttatagc agcatgattt ataactcctt gggatatata ccagtaatgg gatggctggg
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 120721 tgaactagtt tacagtccca ccaacagtat aaaagtgttc ccatttctcc acaccctctc
 120781 cagcacctgt tgtttcctga ctttttaatg attgccattg taactggtgt gagatgggtat
 120841 atcattatgg ttttgatttg catttctctg atggccagtg atgatgagca ttttttcatg
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 121201 cccatgctta tgtcctgaat ggtattgcct aggttttccct ctagggtttt gatggtttta
 121261 ggtctaacat ttaagtcttt aatccacctt gaattaattt ttgtataagg tgtaagggaag
 121321 ggatccagct tcagctgtct accataggct agccagtttt cccagacca tttattaaat
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 121801 cgttgagcag tgattttagt ttctccttga agaggtcctt cacatccctt gtaagttgga
 121861 ttcttaggta ttttattctc ttttagcaa ttgtgaatgg gagttcactc ctgatttggc
 121921 tctctgtttg tctgttattg gtgtataaga atgcttgtga ttcttgaca ttgattttgt
 121981 atcctgagac tttgctgaag ttgctatca gctttaagga gattttgggc tgagacaatg
 122041 ggggttttcta aatatacaat catgtcatct ggaaacaggg acaatttgac ttctctttt

FIGURE 2 (cont.'d)

122101	cctaattaaa	taccctttat	ttctttctcc	tgccctgattg	ccctggccag	aacttccaac
122161	actatgttga	ataggagtgg	tgagagaggg	catccctgtc	ttgtgccagt	tttcaaaggg
122221	aatgcttcca	gtttttgccc	attcagtatg	atattgggtg	tgggtttgtc	ataaatagct
122281	cttattat	tgagatacgt	cccatcaata	cctaatttat	tgagagt	tagcatgaat
122341	ggttgttga	ttttgtcaaa	ggcctttct	gcactctattg	agataatcat	gtggtttttg
122401	tccttggttc	tgtttatatg	ctggattaca	tttattgatt	tgtgtatgtt	gaaccagctt
122461	tgcatcccag	ggatgatgcc	cacttgatcc	tggtggataa	gctttttgat	gtgctgctgg
122521	attcggtttg	ccagtatttt	attgaggatt	tttgcacga	tgttcacag	ggatattggg
122581	ctaaaattgt	tttttttgtg	tgtgtatctg	ccaggctttg	gtatcaggat	gatgctggcc
122641	tcataaaatg	agttagggag	gattccctct	ttttctattg	attggaatag	tttcagaagg
122701	aatgggtacca	gctcctcctt	gtacctctgg	tagaattcgg	ctgtgaatcc	atctggctct
122761	gaacttttct	gggttggtag	gctgttaatt	attgcctcaa	tttcagagcc	tgttattggg
122821	ctattcaggg	attcaacttc	ttcctgggtt	agtcttgga	gggtgtatgt	gtcaggaat
122881	ttatccattt	tttctagatt	ttctagttaa	tttgcttaga	gttgtttata	gtattctctg
122941	atggtagttt	gtatttctgt	ggaatccgtg	gtgatgtccc	ctttatcact	ttttattggc
123001	tctaattgat	tcttctcttc	ttttttttt	ctttttttt	aattgatcat	tcttgggtgt
123061	ttctcgcaga	gggggatttg	gcagggtcat	aggacaatag	tggagggaag	gtcagcagat
123121	aaacaagtca	acaaaggctc	ctggttttcc	taggcagagg	accctgcggc	catccgcagt
123181	gtttgtgtcc	ctgggtactt	gagattaggg	agtgggtgat	actcttaagg	agcctgctgc
123241	cttcaagcat	ctgtttaaca	aagcacatct	tgcactgccc	ttaatccatt	taaccctgag
123301	tggaacacgc	acatgtttca	gagagcacag	ggttgggggt	aaggtcatag	atcaacagga
123361	tcccaaggca	gaagaatttt	tcttagtaca	gaacaaaatg	aaaagtctcc	catgtctacc
123421	tcctttctaca	cagacacagc	aacctccga	tttctcaatc	ttttccccc	ctttccccc
123481	tttctattcc	acaaaaccac	cattgtcatc	atggcccgtt	ctcaatgagc	tgttggctac
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123601	aggcagaggc	acctctcacc	tcccgacgg	ggcagctggc	cgggcggggg	gctgaccccc
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123781	ctgccggg	gagacgctcc	tcacttccca	gacggggcgg	ctgccggg	gaggggctcc
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124081	ggccaggcag	agacgctcct	cacttccctag	acaggatggc	ggccgggcag	agaogctcct
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124681	tcgcttatga	tcgtgatgtt	gtcttagttg	cttgttggtc	tctagtgtgt	ttttgtgtgt
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124981	ttgaggggca	tgtgggttaa	ttaggttttg	tatagattat	atttatttta	tttattgtat
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125281	tggggggggc	tggggggggg	ggggggggcg	gggggagata	ggacgtggaa	gaggagagat
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FIGURE 2 (cont.'d)

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128581	tttacaaaag	ccaaatccag	ttcctcatcc	tcttgccac	tcactcagca	agccttgggg
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FIGURE 2 (cont.'d)

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FIGURE 2 (cont.'d)

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FIGURE 2 (cont.'d)

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135781 gcgaggggta tcatcctttg tgcgagcgca ggcatcccca ttccatgccc tgccctcaag
135841 ctgccaggag gaccctgga gggcttctta agaggaatgg gaacttgagt gttttccaca
135901 aacctcctgg ctctgaatac cgtgagcagt ttggggtggc tgacgtgag gccagacgt
135961 tgtggtcaga aagcgggaagc ttccctccctg tgctctgtag tctaggccag aggccttagg
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136381 cttagctgca ggttgtgagc caagacagag attcctgatc ccaccgagga gtggggagag
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136921 ctgaatgctg gtggggcagg cagagcaagt ctgtgtgcgg tgaggactga ggggcccga
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137041 ctgaggggct ggagaggag gaaggtgtcc ccaggggata gatgacagga aagctgggggt
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137461 cacagcagga gggggccagg cctgcagtct ggctggtcta tggccagccc agccactttc
137521 ctggtgctgg cttcaagcct gaatatgata agaggtgaac aaggggcaga gggctccagg
137581 cttgacccaa ctgagggagt aaaagacaaa gcttgatggc tgtggttcta acatcccagg
137641 ggccactaat ggaagaatga cagataaagg cctccttcca ggaaaatacc agggtcacat
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138241 atttcagatg tggggaactg ggagggcagg gtccccgggg gattcacacg tgggaggagg
138301 aaggctggac acagtttctg gggacagaag tgggtggcgt ggtggtgcag atgctggaga
138361 gaaacaaggg aaacctgcaa ctaccggcc tcatttcaca aggggocact ttgctgattt
138421 tgcttgttgc ttttaacttt ttattggata tgtagtttta aagcttttga atatttcggc
138481 aaagagttag ttggtcagtt ttcatgtgag ctttctatca gcatttttagg aaagttttca
138541 tctgtctttc atcagatctc tgctgttgct gggacaggga gacggatctc tctgcggaag

FIGURE 2 (cont.'d)

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138661	gggaggagga	agctgtagag	cagagaggaa	gattgggggc	cagacaaaac	agagactcgg
138721	gatgagagag	ggggaggcta	tggggaagag	ctgaggaaaa	caagggacgg	agagagggat
138781	tggggtagtg	gatagggaga	ccaaggggca	gagaaggggg	aaaatgtggg	acagagagcc
138841	ggagattgag	ggagcagaga	aggggcctct	gagaggtggc	tgggaagacag	agtgtagagg
138901	aaaattcaga	gcaaaaaaga	agggagagtt	gtagggtaga	gagcagaaac	ggggggcatt
138961	tagggaaactg	ggagcagggg	aaggaagagg	aggcagaaaga	gggggcagaa	tgtagggaaa
139021	agatggctca	gagggggaga	ctgggagatg	agagacggat	tgagggtcat	accaaagaaa
139081	tatttatgtct	ccactaatat	attcccatct	acaagaagga	ggtattctag	aattaatttt
139141	tcatgaatgt	aagaatactc	actgacttaa	gaagcatgaa	tcattataac	acttttctac
139201	acttggtgaa	catattcaag	tatcatatat	taaacaccac	gctattgccc	ttagctttct
139261	taaaagtacc	agcacagaat	gaaatgggcc	aactaagatt	tctcagaaat	cttcagatct
139321	gttacagtta	tcttatccga	tctgaattac	tttaaattta	cagagttaaa	gaaataaatc
139381	aacttggttaa	atttgcttag	acttggttta	gcctctggaa	acagggccat	tctgtgtagg
139441	atccccgctt	tctccagcag	acagtgagga	gccaaaggaa	acacaaccgt	ttataggata
139501	atccccacctg	cgaaggactt	gattcccagt	cctgactgaa	tcactatgcg	gaactctgat
139561	gagaataaca	agggacctgt	gactcacttt	atcaaggaaa	aaatcagtc	tgtccattat
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139861	aatgaggaag	tagttctggg	ctgggcaaga	gaaagtgttg	agtaactttg	catcaacagg
139921	aactttctca	aaagctgatt	ttttcaagga	aactttcagc	cttagctggg	tccccacctt
139981	gcggtagccc	ccacccccaa	ccaccccccg	ccccaccctt	gacttatagc	cctctcaacc
140041	caatggaaat	gtgacatgca	aatctctcct	gaaatttgcc	cctgggattc	cggctgaggt
140101	gttttaattat	aatgtcatct	gaatgacttc	tcagggtagg	ggaagacaga	ccgagagagg
140161	gagatagtgg	acaaaaacagt	gccttcaact	tttgtccgaa	gagcccgcga	tggccacggt
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140281	accaatggcc	tgtgcttcta	gaaccttatg	atgtgtggag	gagaatgggg	aggaggaagc
140341	acttacaaag	gggaagtatg	ctgtaccctg	tccttctccc	ccagggtgtg	ggaatccatg
140401	aaataatgga	agtaaatgaa	ggtgcgtcag	aaatggcaga	gggtgccatc	accctaaatg
140461	gacgacacat	taactccagg	gcaccgcagt	cctcagggtc	agttccccga	ctggggcaac
140521	taagcaactg	aaggttgctc	ttgtactcaa	cacctaaact	ttcttgaagg	gagctcaagc
140581	caggatgcta	gtgaacttgg	ctgagggcca	tgtcgtgcta	cagcgagggt	atgggctcct
140641	ggataggaat	cgagcccattg	gagagcttgg	aatccagaaa	aagagtagtt	ttactttact
140701	ttaggctctg	cacacctaaa	acacaaatct	tatccaagag	taatcagttg	aaacatgaac
140761	ttgccgggttg	tatttgtcca	ttatgagcaa	tttcacaagg	tttgatcaaa	taataaaacta
140821	aatggtgaga	aggcagcttg	gtaaagtcta	aatctttttg	gtccagttag	gagctggggg
140881	ggggtggaag	ggaactgata	ttccctgcgc	acctgcagta	tgtctgggac	tattaccagt
140941	catttacgga	gcgcttcctc	tgtgccagggt	actggattag	gcacttcatt	aaaggctcag
141001	tgagaactgc	gacctgccca	tgtctcatgga	aaagagtcgt	ggggctggaa	ttcagggtcca
141061	gatcagcatt	aggaaactagc	ttccaaatgc	tgagggtctc	ctcgcgtcct	cacacctagc
141121	gtggaagtgt	tccctgggtg	acattctgct	gggagggagt	gcagcccttc	catttaggaa
141181	aagcctctcc	tggcctgggt	tctgttcctt	ccctttaatt	tcctctgggg	actgtcctga
141241	gaatgtaagc	tgcccagggtg	cogtctgagc	caccagatgg	gcctgggctc	acctatgact
141301	catggaccag	actgaagcca	accctccatt	ttcagctggg	gaaactgagg	cccagacaga
141361	cggtagagtg	agctgggtgt	catgtctgga	cagaactcag	gcctctggac	ccgctgacgt
141421	gcaccccttc	ccacggctca	cagctggctg	ctccgagggt	ccctcagagt	tctgtgagca
141481	tgactcatct	gcctctccct	ccctgtgcga	cctgcagaag	gagcctaagg	aagaggtggc
141541	acaagaaacg	cggcccagtg	aagggggctc	cggagcctcg	gagcccagat	cttgaagtgg
141601	aggggaaacc	ttgggccttc	tctcccaggg	gaagacgcct	tgcaggcggc	acgcgggaag
141661	tctccgtttc	cgacaggggt	cgcggccgcg	gcgaggggtc	ctggacgctt	gcccaccagg
141721	gtaccaccgg	gccactggga	gcccaggcca	cgccccaccg	cagttctgcc	ctccctgaca
141781	gggtccctgga	caccccagtg	cctgtccggg	cgcgcccgac	gggcccctcg	gcgcccgcc
141841	caggcctctg	ccgtccaaac	cgggtcccg	acgcacctca	gcccgcgctc	caccctgtgc

FIGURE 2 (cont.'d)

141901	ccgccccgcgc	tcaccgcgcgc	acgctcgaag	tcgttgtaga	agggcttgtc	cagcaggtgc
141961	ttctcgtctgc	agccccgcga	gcccacgagg	ctgaggtaga	tgtagtctgc	agtgtcttca
142021	ccacgggggtg	aagtacggtc	cnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
142081	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
142141	ntttttgggt	tgttggtgtc	tctttgtttt	tgcgagcggt	ccttccgccc	cgtggtgaag
142201	acaagtgggc	gcctctgcct	ggccatccca	tctgggaggt	gaggagtgc	tctgcccggc
142261	caccccgctct	gggaagtga	gagcgtgtct	acccagccac	cacgtctggg	aggtgaggag
142321	cgcttctgcc	tggccgcccc	atctgggaag	tgaggagcgc	ctctatctgg	ccacccttc
142381	tgggaagtga	ggagtgcctc	tgcccggccg	ccaccctgc	tcggaggcga	ggagcacctc
142441	tgcccggcca	ccaccctatc	tgagaggcaa	ggaccacctc	tgcttggcog	ccatcctgtc
142501	tgggaggcga	ggagcacctc	tgcccagccg	ccgccccacc	taggaggtga	ggagcgccctc
142561	tggccagccg	ccccacctgg	gagcgagga	gcgcctctgc	ctggccgccc	catctgggag
142621	gtgaggagcg	cctctgcccc	gccaccaccc	catctgggaa	gtgaggagcg	tctctgccag
142681	gcgcggcgct	ctgggaagtg	tacccaacag	ctccgaagag	acagcgacca	ttgagaacag
142741	gccatgatga	cgatggcggt	tttgtcaaaa	agaaaagggg	gaaatgtggg	gaaaagaaa
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142861	ttctgtacta	agaaaaattc	ttctgccttg	ggatgctgtt	aatgtacaac	cttaccctca
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142981	gcaagatgtg	ctttgttaaa	cagatgcttg	aaggcagcac	gctcattaag	agtcatcacc
143041	actccctaata	ctcaagtacc	cagggacaca	aacactgctg	aaggctgcag	ggacctctgc
143101	ctaggaaaaac	cagagacctt	tgttcacctg	tttatctgct	gaccttctct	ccactattat
143161	actatgactc	tgccacatcc	ccctctctga	gaaacaccca	agaatgatca	ataaatacta
143221	aaaaaacaaa	ttaattaatt	aaaaaacctt	catatggaac	caaaaaagag	cctgcattgc
143281	caagtcaatc	ttaagccaaa	ggaacaaagc	tggaggcatc	acactacctg	acttcaaact
143341	atactacaag	gctacagtaa	ccaaaacagc	acggtactgg	taccaaaca	gaggtataga
143401	ccaatggaac	agaacagagc	cttcagtaata	aatgccacat	atgtacaact	atctgatctt
143461	tgacaaaacct	gacaaaaaca	agaaatgggg	aaaggattcc	ctatttcata	aatgggtgtg
143521	ggaaaactgg	ctagccaata	aatggtgtag	ggaaaactgg	ctagccatat	gtagaaagct
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143641	acatgttaga	cctaaaacca	taaaaacctt	agaagaaaac	ctaggcaata	ccattcagga
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143821	cagagtgaac	aggcaaccca	cagaatggga	gaaaattttt	gcaatctact	catctgacaa
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143941	ccccatcaaa	atgtgggcca	aggaaaagaa	cagacacttc	tcaaaagaag	gcatttatgc
144001	agccaaaaga	cacatgaaaa	aatgctcatc	atcactggcc	atcagagaaa	tgcaaatcaa
144061	aaccacaatg	agataccatc	tcacaccagt	tagaatgggtg	atcgttaaaa	agtcaggaaa
144121	caacaggtgc	tggagaggat	atggagaaat	aggaataactt	ttacactgtt	gggtggactg
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144241	aataccattt	gacccagcaa	tcccattact	gggtatatac	ccaaagtatt	ataaatcatg
144301	ctgctataaa	gacacatgca	cacatatgtt	tattgtggca	ctattcacia	gagcaaagac
144361	ttggaaccaa	cccaaagtgc	caacaatgat	agactggatt	aagaaaatgt	ggcacttata
144421	caccatggaa	taccaagcag	ccataaaaaa	tgatgagttc	atgtcctttg	tagggacatg
144481	gatgaagcta	gaaaccatca	ttctcagcaa	actattgcaa	ggacaaaaaa	ccaaacactg
144541	catgtttctca	ctcatagggtg	ggaattgaac	aatgagaaca	catggacaca	ggaaggggaa
144601	catcacacac	tggagcctgc	tgtgggggtg	gggggtgggg	gagggatagc	attaggagat
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144721	tatgtaacta	acctgcatgt	tgtgcacatg	taccctaaaa	cctaaagtat	aataataaaa
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144841	atttgtatta	tgctgtcagt	gagtaggtct	attaagtgat	aacattaaac	acaaatacca
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144961	atagtaactt	tgttttctca	tttgaccatg	ctcaatcttt	agagaccatg	ctcttctctc
145021	aaaatgactg	taggttcac	caagtatgtt	tgctacccaa	aatcaatgaa	acacagtcac
145081	aaatatgtct	gtctaggaa	aaagccagct	aattagattc	ttattctaag	gaacaagaag
145141	agggcaggta	agaatttgat	tatggcagaa	ttctgacct	aatcaataac	tgttttctat

FIGURE 2 (cont.'d)

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145201 tttttctcca tgttgtcggg tggttcctac ctgactttca tcattttcaa tgattcctgt
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145321 attgggaaat aaacattttt ctgcaaaaaa aaaaaaacaa tgaacactga cttctcctat
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146461 aaagaagaa aaagaagaa agaaaagaaa gaaagaagaa aagagacaga aagaagaag
146521 ggaagaaaga aagaagaaa gaaaagaaa aagaagaaa gaaaagaaa aagaagaag
146581 ggaagaaaga aagaagaaa gaaaagaaa aagaagaaa gaaaagaaa gaaagagaga
146641 aagagaaaga aagaagaaa gaaaggagag acagaacgaa ggaaagaag aaggaattat
146701 ttcctttttt cccaccacg cctcaccaca aaccttggtg tggggataac atgtaaaagt
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147961 acatcttaag atgtatccct ctctctctga atcttctctg gatagaacaa atgaaaacta
148021 aacaaggagt gggctgggag gagctgtcaa catccatcct aaggaaaagt ctgttagggc
148081 tatgagcttc ctctgtccta gagtagagct gggaaaatag agtcttgaca attgatttct
148141 tattctttct ttctctaaat cccaatgaa tatgtttttc tttttagtgc tcagtggtag
148201 acagggttta attctgttta gttatgcaaa caggccagaa gaaactgaaa taggctataa
148261 atgtttgaag ctggccaaaa gaagatgtag tcacacaaga taccctctgg aggaaagtga
148321 ctgtcaggaa agtcactttc ctgaccagca aaaggaccag cactattttg tctgtctgaa
148381 gaagtacatt tgtcctgctg ctgtcatggg gacagtggct ccagggtctc ctgtggacat
148441 gccacaagtt ccactccatg agtcaggaga tcatcggttc agctgggggg aacttagggg

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FIGURE 2 (cont.'d)

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148501 tgctctcttg agcttagcct tatgctgcgt gtctgctttg ccaaccacaa aaacgatagt
148561 ttcatagcaa gttgcaggct ccctggaac ttaacctacc tactaggata catttacago
148621 tgcttttctc ctggcatcag gctggagatc aagaaataca taaaacatag tccctgccct
148681 cagttagctc agaatatggg gggggaatgg agacagaagc aaatactggt gggacaagtg
148741 acgatggggc aaaatatggg cttaaacaaa ggttgtggga gctcagaaaa ggagcaactc
148801 actctgcctg aaagagtcac ggagggtccc acggaaaaag caacatttgt gcaggaggag
148861 attagaacac agaggagaag gatagcagca ctocagatga agggaaggaa atgtgccaag
148921 atttcatggg aatgagaaga tgtaaaactgc tcaggaaaaa ccatggttga agctcttcac
148981 agtggctgaa gcatggtgtg attgtcagtt ttgcttgtca acttggtcag gctgtagtag
149041 tcaactattc aaccaagcac tgatctaggt attgctgtga aggtattttg tagtogcaat
149101 taacctctac aatcagttga ctctatttaa aggacattat tctgtactat ctgagtggac
149161 ctgatccact tcatcccaaa ggtaaatgat tctccaacag tgttctcacc tacatctagg
149221 gcttggaga tgaagggtgaa ggagaatatg gaaaaacaac aagaaaaaag tcaatcaatc
149281 agaacttcca gccctgtggt ttgtagtcca ctttatgttc aaccagtagt tctccacttt
149341 tatctgcttc cttgtaagat ttcatctgaa aaagggaatt cactcttcag gtgttggaag
149401 tcaattatga gagaagcact tacagaatga ctatctgaag agctctgcag acattctcca
149461 gagtaaaaca accataaccg gtgaaaatta aaaacaaaca aaataaaaaa atgttagagt
149521 attggaatt gttctaaggg ccgacagcaa atgaagaaat ccaagaaagc ctaccaattt
149581 cagtgaagag agtgagagtc tatggtgttg agtctatggt gtttaagttc tgttcatttc
149641 ctccctctcc tgcaatcagt tcagtgaaac agaaacctg ctccagagat gtgcagccaa
149701 aaagacaggg tgccctttcc cctcagctcc caatctaggg cagactacca gcatttccca
149761 agccatctc tggtctatg ttgcagaagt tctattccaa gaaagttaga ctgagaatct
149821 gaagcttccc tottccactc agcctctact attaaggcgt aagttctatc cccagtgcca
149881 cgggccaaga atactgatgc tgaatgtcct tgctccgcta cactcatagg gcagagattc
149941 catgggagga gtgaagtttc cattccagaa aaggcagaaa aacagaaatt actgccaat
150001 ccagtacccc acccataaag aaggaaagac atctgagaaa agcatgacac tgtcccaaaa
150061 accacgtgca gagtagtggt agtagaggca gtagggagac tagaggacct gcctagaggg
150121 agaagtaggc cataagaaga aaagtctcta gttctcccta aagggacaaa ctttattttg
150181 aacagaacat gcggaagttc aagcctaagg gcactgtcaa aaacaatgaa tatttttggt
150241 gaagcaatt aataggttaa tggcctcta gtgagagcaa caaactaaac cataaaaccg
150301 ctagacatat acaataaaaa tccaagaaag agagagccaa gaagggcctt cctgaggtta
150361 aaacaaacat caaagtcttg tctgaaaaac tgctcctgca aaggaagcaa aatatatttg
150421 gatcagactg tggagcaatt tatgcccta aaaagctgtc aaaacaaaa gagcaattat
150481 ctagcaattg ctggagggtta acagttgggt atgataccaa aagaggcaaa caactgaaca
150541 gatcagagaa agaggcagtc aaagagagca ctgctaaatg cactgtaatt ccaatttgag
150601 agaaaaatgt cccagtgtct tgactccctc aggaacaaca tcagaggcca caaattatgg
150661 tggaaatagg cttcactata tagtctagcc aggcatttaa acaaataaac aattaaacaa
150721 cagtaacata gtgagggggg cagaaatgag tattgcaact agctagaaca tatttttgaa
150781 caaaaaaatt atgagtcaag cagagatatg gaaaagacag agccatacac cagaaaaaag
150841 gtaagcaaga gaaactgcct ttgtgagtgc caagatgtca gacatagcag aaaaaaacc
150901 tcaaagtaat tattataaat atgttcaaaa actaaaagaa aatgtgctta aaaaataaaa
150961 gatggtatga taatttcttg tcaattcaaa aataccaata atagattaaa aatatttttt
151021 caaaagttaa ttaaccaaatt ggaaattctg gggtttaaaa gtaaaaataac aacaataaga
151081 acatttttgt agaggaaatg aacaatagat ttgtaccaga aggaaaaata atcaaataaa
151141 cagggaattc atcaacacca aacctgtctt acaagaaata ctaaaaggag ttcaatctga
151201 aagaaaagac attaaacaagc aacaggaaat catctgaagg tacaaaaact actgtacctt
151261 cagatgataa taagtcttca aaaaacacag aatattataa cactgtaatt atggtgtgta
151321 agctacttat atcataagta gaaagaggaa aagatgaact gattaaaaaa caattacaac
151381 agcttttcaa gacagtataa taagatatat aaataacaga aagcttaaaa gcatataaat
151441 aaagttaaaa tgtagagggt ttttttagtt tctttttgct tgatttgtga tttatttatg
151501 caatcagtgt tgttttctac agcataaaaat aatgggttat aagatagtat ttgcaagcct
151561 catagtaacc tcaaatttaa aaacatacaa tgtatacaca aaaagtgaag agcaagaaat
151621 taaaacatac caccaaaaaa aataacttca ctaaaaagga gacagggaag aagaaaagat
151681 gggagagaag atcacaaaac aaccagaaaa taaataacaa aatggcaagc aagtccttat
151741 ttgtcaataa taatattgaa tgtaaatgga ctatactctc cagtaaaaag atacagagtg

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FIGURE 2 (cont.'d)

151801	g ttgaatgga	t taaaaaaaa	g gacccaatg	a tctgtttacc	t acaagaaat	a aacttcaact
151861	t ataacaata	c acagactaa	a aataaagtc	a tgggaaatg	a tactttcacg	a caatggaaa
151921	c caaaaaaga	a caggagtag	c tataccttt	a tcagactaa	a tagatttca	a gacaaaaat
151981	t gttaagaaa	a accaaataa	g gtcattata	t aatgataaa	g agatcagtt	a agcaagagg
152041	a tgaacaat	t gtaaatata	t atgcactca	a cattggagc	a cctagataa	a taaaaacaaa
152101	t attattaga	g ctaaagaaa	g atagacccc	c tcccccaaa	a caataatag	c tgtagattt
152161	c aatgctcca	c tttcagcat	t ggacagatc	t tccagacag	a aaatcagca	a ggaaacatc
152221	a gatgtaatc	t gaactatag	a ccaaattgg	c ctaataaagt	a tttacagaa	t atttcatcc
152281	a aaggttaca	g aagacacat	t tttctcctt	a gcacataca	t catttctcaa	g aacaggcca
152341	t atattaggt	c atgaatcaa	g tctcaaaac	a ttcaaaaaa	a ctgaaataa	t tctcaagcat
152401	c tctctttgac	c acaatggaa	t aaaactaga	a accaataac	a aggggaatt	t tggaaacta
152461	t acaaaaaca	t ggaatttaa	a caatatggt	c ctaaatgat	a agtgggtca	a tgaagaaat
152521	t atgaattga	a ttgaaaaat	t tctaaaaac	a aatgacaat	g gaaacataa	t gcaccagaa
152581	c ctatgggat	a caacaaaaa	c agtaccaag	a gtgatattt	c cagataagg	g cctacatca
152641	a aaaggaaga	a aaacttcaa	g tgaataacc	t gatgatgca	t tottaaagaa	t taaaaaggc
152701	a agagtaaac	c aaacccaaa	a tttagtagaa	g aaaaagaact	a aataaagatc	a acagtagaaa
152761	t aaataaaaat	t ggacttctg	c tccaagatg	g cctaataaga	a acagctcca	g tctgcagct
152821	c ccagcatga	t tggcacaga	a gatgggtga	t tttctgcatt	t ccaactgag	g taccagggt
152881	c atctcattg	g gactggttg	g acaatggat	g cagcccatg	g aggggtgag	g tgaagcagg
152941	t gaggagtca	c ctcaccccg	g aagcacaa	t gattggggg	a tttcccttt	c ctagccaag
153001	g gaagccgtg	a cagactgta	c ctggaaaaa	c ggttcaact	c cacccaaat	a ctgtgcttt
153061	t cccatagtc	t tagcaaccg	g cagaccagg	a gattctctc	c caagcctag	c tcatcaggt
153121	c ccatgccca	c ggagcctgg	c tcaactgta	g ccaagcaat	c tgagatcaa	c ctgcgaggc
153181	t gcagctggg	t ggggggagg	g gtgtcagcc	a ttgctgagg	a ctgagtagg	t aaacaaagt
153241	g gccaggaag	c tcaaaactg	g cagagccca	c cgcagctca	g caaggccta	c tgcctctat
153301	a gattccacc	t ctgtgggca	g ggcataact	g aacaaaagg	c agcagacaa	c tttctgcaga
153361	t ttaaaccgtc	c ctgcctgac	a gctctgaag	a gagcagtgg	t tggcccagc	a tggcatctg
153421	a gctctgaga	a cagacagac	t gcctcctca	a gtgggtccc	t aaactccat	g tagcctaac
153481	t gggagacat	c tccccatag	g ggcgcagac	a cacctcata	c aggtgggtg	c cactctggg
153541	a caaagctct	c agaggaagg	a tcaggaagc	a atatttgct	c tttctgcaat	a ttgtctggt
153601	c tgcagcctc	t gctggtgat	a ccagggcaa	a cagagtctg	g aatggacct	c cagcaaaact
153661	c cagcagacc	t gcagctgag	g gacctgact	g ctagaagga	a aaactaaca	a caaaaagga
153721	a tagcatcaa	c atcaacaaa	a aggacattc	a caccaaaac	c tcatctgta	g tcaccaata
153781	t caaagacca	a aggtagata	a aaaccacaa	g atggggaga	a accagagca	g aaaagctga
153841	a aattctaaa	a actgagcac	c gcttctect	c cagaggatt	g caactcctc	a accggcaac
153901	g aatgaagct	g ggtggagaa	t gacttttgac	a agttggcag	a agtaggctt	c agaaggctc
153961	g taataacaa	a ctactccaa	a ctaaaagg	a catgttcta	c ccattgcaa	g gaagctaaa
154021	a aaccttcaa	a aaaggttag	a caaatggct	a actagaata	a acagtgtag	a agaggaact
154081	a aatgacctg	a tggagctga	a aacogtggc	a tgaggacat	c atgatgcat	g cacaagctt
154141	a aatagctga	t taaatcaag	t ggaagaaag	a atatcagt	a ctgaagatc	a aaattaacaa
154201	a ataaagcaa	g aagataaga	t tagagaaaa	a agagtaaaa	a gaaatgaaa	a gcaacctcca
154261	a gaaatatgg	g actatgtga	a aaaacccaa	t ctacacttg	a ttgggtgtac	c tgaagtgta
154321	t gggggagaag	g aaaccaagt	t ggaaaacac	t cttcagaat	a ctatccagg	a gaacttccc
154381	c aaactagca	a ggcaaggcca	a cattcaaat	t caagaaata	c agagaacac	a caaaaagata
154441	t tctctcaaga	a gagcaaccc	a agacacat	a attgtcagc	t tcaccaagg	t tgaaatgaa
154501	g gaaaaaaaat	g ttaagggca	g ccagagaga	a acgttgggt	t accaacaaa	g ggaagccca
154561	t cagactaaa	a gtagctctc	t cagcagaca	c cctgtaaag	c agaagagag	t taggggtcaa
154621	t attcaacat	t ctttaaagaa	a ataattttt	a acccagaat	t tcatatcca	g cccaaactaa
154681	g cttcataag	t gaaggagaa	a taaaaatct	t tacagacaa	g caaatgctg	a gagattttg
154741	t caccatcag	g cctgcctta	a agagctcc	t gaaggaaac	a ctgaacatg	a gaaaggaaca
154801	a ctgtttacca	g ccaactgcaa	a aacacgcca	c attgtaaag	a accatcgat	a catgaagaa
154861	a ctgcaacaa	t taaactggca	a aataagcag	c tcacagcat	a atgacagga	t caagttcac
154921	a cataacaat	a ttaaccttta	a atgtaaatg	g gctaaatgc	c tcaattaaa	a gacacagact
154981	g gcaaatgtc	a tagagtcaa	g acccatcag	t gtgcggtat	t caggagacc	c atctcacat
155041	g caaagacac	a catagggat	g gaggaagat	c caccaagca	a atggaaagc	a aaaaaaaa

FIGURE 2 (cont.'d)

155101	aaaaaaaaa	aaaaaagcag	gggttgcaat	cctagtctct	gataaaacag	agtttaaacc
155161	aacaaagatc	caaagagaca	aagaaagcca	ttacataatg	gtaaagggat	caatacaaca
155221	agaagaacaa	actatcctaa	atatatatgc	aaccaatatg	ggagcaccca	gattcataaa
155281	gcaagtctgt	agagacgtac	aaagagatgt	agacttccac	acaataataa	tgggagactt
155341	taacactcca	ctgtcaatat	tagacagatc	aatgacacag	aaggggtcaca	aagatatcca
155401	ggacttgaat	tcagctattc	accaagtggg	cctaatagac	atctacagaa	ctctacaccc
155461	caaatcaaca	gaatgtacat	acttctcagc	accacatcat	acttattcta	aaattgacca
155521	cataattgga	agtaaaacac	tcctcagcaa	atgtaaaaga	acagaaatca	caacaaactg
155581	tgtctcagac	tacagtgcaa	acaaattaga	actctggatt	aataaactca	ctcaaaatca
155641	cacaactaca	tggaaactga	ataacctgct	cctgaatgac	tactgggtac	ataatgaaat
155701	gaaggcagaa	ataaagatgt	tcttttgcaac	caataagaac	aaagacacaa	cataccagat
155761	tctccgggac	acattttaaag	cagtgtgtac	agggaaaatt	atagcactaa	atgccacaa
155821	gagaaagcag	gaaagaacta	aaatcaacaa	cctaacatcg	caattaaaag	aactagagaa
155881	gcaagagcaa	acacattcaa	aagctagcag	aaggcaagaa	ataactaaga	tcagaacaga
155941	actgaaggag	atagagacac	aaaaagcact	tcaaaaaaat	caatgaatcc	aggagctggt
156001	tttttaaaaag	atcaacaaaa	ttaatagacc	gctagcaaga	ataataaaga	aaagagagaa
156061	gaatcaaatt	agactcaata	aaaaaagata	aaggggatat	caccactgat	cccatagaaa
156121	tacaaactac	catcagagaa	tactataaac	acctctacat	aaataaacta	gaaaatctag
156181	aagaaggggg	aggagccaag	atggccaaat	aggaacagct	ccagtctaca	gctcccagcg
156241	tgagtgcacac	agaagacggg	tgattttctgc	atttccatct	gaggtagccg	gttcatctca
156301	ctagggagtg	ccagacagtg	ggcacaggtc	agtgggtgcg	cgcactgtgt	gcgagccaat
156361	gcagggtgag	gcgttgcttc	actcgggatg	tgcaaggggt	cagagagttc	cctttcctag
156421	tcaaagaaaag	gggtgacaga	tggcacctgg	aaattcgggt	cactcccacc	tgaatactgc
156481	actttttccaa	cgggcttaaa	aaacggcgca	cctggagagt	atatcccgca	cctggcttgg
156541	agggtcctat	gcccacggag	tcttgctgat	tgctagcaca	gcagtctgag	atcaaactgc
156601	aaggcagcgg	cgaggctggg	ggagggggcg	ctgccattgc	ccaggcttgc	ttaggtaaac
156661	aaagcagctg	ggaacctcaa	actgggtgga	tcccaccaca	gctcaaggag	gcctgcctgc
156721	ctctgtaggc	tccacctctg	ggggcagggc	acaggcaaac	aaaaagacag	cagtaaccac
156781	tgcagactta	aatgtccctg	tctgacagct	ttgaagagag	cagtggttct	cccagcacgc
156841	actgggagat	ctgagaacgg	gcagactgcc	tctcgaagt	ggtccctgac	cctgacccc
156901	cgagcagcct	aactgggagg	catccccgag	cagaggcaga	ctgacacctc	acacagccgg
156961	gtactccaac	agacctgcag	ctgagggtcc	tgtctgttag	aaggaaaact	aacaaacaga
157021	aggacatcca	cacaaaaaac	ccatctgtac	atcaccatca	tcaaagacca	aaagtagata
157081	aaaccacaaa	gatggggaaa	aaacagagca	gaaaaactag	aaactctaaa	aggcaaagcg
157141	cctctcctcc	tccaaaggaa	tgcagttcct	caccaggaat	ggaacaaagc	tggacggaga
157201	atgactttga	cgagctgaga	gaagaaggct	tcagatgatc	aaattactcc	gaactacggg
157261	aggacattca	aaccaaaggc	aaagaagttg	aaaacgttca	aaaaatttag	aagaatgtat
157321	aactagaata	accaatacac	agaagtgttt	aaaggagctg	atggagctga	aaaccaaggc
157381	tcgagaacta	cgtgaagact	caggagccga	tgcgatcaac	tggagaaaag	ggtatcagcg
157441	atggaagatg	aaatgaatga	aatgaagtga	gaaggaaagt	ttagagaaaa	aagaataaaa
157501	agaaatgaac	aaagcctcca	agaaatatgg	gactatgtga	aaagaccaa	tctacatctg
157561	attggcgctac	ctgaaaagtga	cggggagaa	ggaaccaagt	tggaaaacac	tctgcaggat
157621	attatccagg	agaacttccc	caatctagca	aggcaggcca	acattcagat	tcaggaaata
157681	cagagaacgc	cacaaagata	ctcctcgaga	agagcaacac	caagacacat	aattgtcaga
157741	ttcaccaaaag	ttgaaatgaa	gggaacaatg	ttaagggcag	ccagagagaa	aggtcgggtt
157801	accctcaaag	ggaagcccat	cagactaaca	gcggatctct	cggcagaaac	tctacaagcc
157861	agaagagagt	gggtggccat	attcaacatt	cttaaggaaa	agaattttca	aaccagaatt
157921	tcatatacag	ccaaactaag	cttcataagt	gaaggagaaa	taaaatcctt	tacagacaag
157981	caaattgctga	gaaattttgt	caccaccagg	cctgccctaa	aagagctcct	gaaggaggtg
158041	ctaaacatgg	aaaggaacaa	ccggtaccag	ccgctgcaaa	atcatgccaa	aatgtaaaga
158101	ccatcgaggc	taggaagaaa	ctgcatcaac	taacgagcaa	aacaacctgc	taacatcata
158161	atgacaggat	caaattcaca	cataacaata	ttaactttac	atgtaaattg	actaaatgct
158221	gcaattaaaa	gacacagact	ggcaaattgc	ataaagattc	aagacccatc	agtggtgctg
158281	attcaggaaa	cccattctac	gggcagagac	acacataggc	tcaaaaataa	gggatggagg
158341	aagacctacc	aagcaaattg	aaaacaaaaa	aaaggcaggg	gttgcaatcc	tagtctctga

FIGURE 2 (cont.'d)

158401 taaaacagac tttaaaccaa cacagatcaa aagagacaaa gaaggccatt acttaatggt
158461 aaagggatca attcaacaag aagagctaac aatcctaata atatatgcac ccaatacagg
158521 agcaccacaga ttcataaagc aagtcctgag tgacctacaa agagacttag actaccacac
158581 attaataatg ggaaacttta acaccccact gtcaacatta gacagatcaa caagacagaa
158641 agtcaacaag gataccagg aattgaactc agctctgcac caagcagacc taatagacat
158701 ctacagaact ctccaccca aatcaacaga atatacattt ttttcagcac cacaccatac
158761 ctattttcaaa attgaccaca tacttggaag taaagctctc ctacagaaat gtaaaagaac
158821 agaaattata acaaaactgtc tctctaacca cagtgcatac aaactacaac tcaggatgaa
158881 gaaactcact caaaactgct caactacatg gaaactgaac aacctgctcc tgaatgacta
158941 ctgggtacac aacgaaatga aggagaaaat aaagatgttc tttgaaacca atgagaacaa
159001 agacacaaca taccagaaat tctgggatgc attcaaagca gtgtgtagag ggaaatttgt
159061 agcactaaat gccacacaaga gaaagcagga aagatccaaa attgacaccc taacatcaca
159121 attaaaaaga ctagaaaagc aagagcaaac acattcaaaa gctagcagaa ggcaagaaat
159181 aactaaaatc agagcagaaac tgaaggaaac agagacaaaa aaaacccttc aaaaattaat
159241 gaatccagga gctggttttt tgaaaggatc aacaaaattg atagaccgct agcaagaata
159301 ataaagaaaa aaagagagaa gaatcaaata gatgcaataa aaaaatgataa aggggatatc
159361 accaccgatc ccacagaaat aaaaactatc atcagagaat actacaaaca cctctatgca
159421 aataaactag aaaatctaga agaaatggat aaattcctcg acacatacac tctccaaga
159481 ctaaaccagg aagaagttag atctctgaat agaccaataa caggagctga aattgtggca
159541 ataatacaata gcttaccaac caaaaagagt ccaggaccag atggattcac agccgaattt
159601 taccagaggt acaaggagga actggtacca ttccttctga aactattcca atcaatagaa
159661 aaagagggaa tctctcctaa ctcatcttat gaggcagca tcatcctgat accaaagccg
159721 ggcagagaca aaacaaaaaa agaggatttt agaccaatat ccttgaggaa cattgtgcc
159781 aaaatcctca ataaaaatac ggcaaaccaa atccagcagc acatcaaaaa gottatccac
159841 catgatcaag taggcttcat ccctaggatg caaggcttgt tcaacatatg caaatcaata
159901 aatgtaatcc agcatataaa cagaacaaaa gacaaaaacc acatgattat ctcaatagat
159961 gcagaaaagg cctttgacaa aattcaacaa cacttcatgt taaaaactct caataaatta
160021 ggtattgctg ggacgtatct caaaaataa agagctatct atgtcaaac cagagccaat
160081 atcatactga atgggcaaaa actggaagca ttccttttga aaattggcag aagacaggga
160141 tgcctctct caccactcct attcaacata gtgctggaag atctgtccag ggcaatcagg
160201 cagggaagg aaataaaggg tattcaatta ggaaaaggag aagtcaaat ttccctgttt
160261 gcagatgaca tgattttata tctagaaaac ccattgtct cagcccaaaa cctccttaag
160321 ctgataagca acttcagcaa agtctcagga tacaaaatca atgtacaaaa atcacaagca
160381 ttcttataca ccaacaacag acaaacagag agccaaatca tgagtgaact ccatttcaca
160441 attgcttcaa agagaataaa atacctagga atccacctta caagggatgt gaagcacctc
160501 ttcaaggaga actacaaacc actgctcaac gaaataaaa aggatacaaa caaatggaag
160561 aacattccat gctcatgggt aggaagaatc aatattgtga aaatggccat actgccaag
160621 gtaatttaca gattcaatgc catcccatc aagctaccaa ttactttctt cacataattg
160681 gaaaaaacta ctttaaagtt catatggaac caaaaaagag ccgcacac caagtcaatc
160741 ctgagccaaa agaacaaggc tggaggcatc aactacctg acttcaagct atactacaag
160801 gctacagtaa ccaaacagc ttggtactgt taccaaaaca gagatataga tcaatggaac
160861 agaacagagc cctcagaaat aatgctgcat atcgacaact gtctgatctt tgacaaacct
160921 gagaaaaaca agaaatgggg aaaggattcc ctatttaata aatggtgctg ggaaaactgg
160981 ctagccatat gtagaaagat gaaactggat cccttcctta caccttatac aaaaattaat
161041 tcaagatgga ttaaagactt aaatgtcaga ctaaaaacca taaaaacctt agaagaaaaa
161101 ctaggcatta ccattcagga cataggcatg ggcaaggact tcatgtctaa aacacaaaaa
161161 gcaatggcaa caaaagccaa aattgacaaa tgggatctaa ttaaaactaa gagcttctgc
161221 acagcaaaaag aaactacat cagagtgaat aggcaacctt cagaatggga gaaaattttt
161281 gcaatctact catctgacaa agggctaata ttcagaatct acaaagaact taacaaaatg
161341 ttcaagaaaa aaacaacccc atcaaaaagt gggcaaaaata catgaaaaga cacttctcaa
161401 aagaagacat ttatgcagcc aacagacaca tgaaaaaatg ctcatcatca ctggccatca
161461 gagaaatgca aatcaaaacc acaatgagat accatctcac accagttaga atgacgatca
161521 ttaaagtgcag gaaacaacag atgctggaga ggacatggag aaataggaat gcttttacac
161581 tgttggtggg ggtgtaaat agttcaatca ttggtgaaga cagtgtggca attcctcaag
161641 gatctagaac tagaaatacc atttgaccca gcaatcccat tactgggtat ataccgaaaa

FIGURE 2 (cont.'d)

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161701 gattacaaat ggtgcaacta taaagacaca tgcacacgaa tgtttattgt ggcactattc
161761 acaatagcaa agacttctaa caaaccacaga tgtccatcaa tgatagactg gattaagaaa
161821 atgtggcaca tatacaccat ggaataactat gcagccataa aaaaggatga gttcatgtcc
161881 ttttcaggga catggatgaa gctggaaaacc atcatttctca gcaaactatg acaaggacag
161941 aaaaccaaac accgcatggt ctcatcata gatgggaact gaacaatgag aacacttgga
162001 cacagggcag ggaacatcac acaccagggc ctggtggggg gtggtggact gggggagaga
162061 tagcattagg agaaatacct aatgtaaatg atgagttgat ggatgcagca aaccaacagg
162121 gcacatctat acctatgtaa gaaacctgca ctttgtgcac aggtacccta gaacttgaag
162181 tataataaaa atgaaaaaaa gaaaatgtta ctagcaaatt gtagatgggt atacctaata
162241 taactctgca tgtgcactat gtgtctggat acacatggaa agtattcagg catacacacc
162301 aaattgttaa aataaatccc ctccaacat taggagtggc tggggagcag atggctttca
162361 cttccgcaca ttccatggtg ccagggtaat accacatcac aatagtaaag agcaaaaaata
162421 acaaccttaa gtttagattt tcttatctaa attttaattc tgtgaagaag tttccatttc
162481 cctttttcac acaggatagt agaattcgagt ttagaaaagag tgagatcact tgttagactg
162541 tacaattttt aagcatcagc gaagtatacc attaaacttc tctatcaatc catttcttaa
162601 acttcccaac ccaaaaaaaa agaaacacat aaaattgaaa tgaagaaaac aatacaaaaag
162661 atcaacaaaa atgaaaggtt ggcttttttaa agagataaac aaaattgaca aatgttttagc
162721 cagactaaga aaaagagaag gcccaataaa ataaaatcag agatgaaaaa gcagacatta
162781 taactgatac tgcggaaatt caaaggatca ttaatggcta ctatgagcaa ctgtatgcc
162841 aacattggaa aatattgaag aaatagataa attcgtagac acacgcaacc taacaagatt
162901 caaccatgaa gaaattcaaa atctgaacag accaaaaaca agtaacaaga tcaaagccat
162961 aattaaaatt ttcccagcaa agaaaagcct gagacccaat ggcttcactg ctgaattcta
163021 tcaaacattt aaagaactaa taccaatcct actcaaacta ttccaaaaag tagaagagga
163081 gggaatatit ccaaaacttat tctatgaggg cattactgct cctatatcaa aaccaaggac
163141 acatcaaaaa aagaaaacta taggccaata tctcacatga atattgatga atcctcaaaa
163201 aatgctagca aactgaattc aacatcacat taaaaatcat tcattatgac caaatgggat
163261 ttatcccagg gatgcaaaata tggttcaaca tatacacatc agtcagtgtg acatatcata
163321 tcaacagaat gaagaagaaa aaccatatgg tcatgttaat tgatgctgaa aaagtatttg
163381 agagaattaa acatctcttc atgcaaaaaa cctcaaaaaa cactggagac agaaggaaca
163441 tactctcaaca caataaacag acatatatga cagactcaca gctagaatca tactaaatgg
163501 ggagaaaactg aaagtcattc ctctaagatc tggaaacaaga caaggatgct cattttcacc
163561 agtggttagtg gaacatagta ctgaaagtc tagctagaac agactagaga cagaaataag
163621 gggcatccaa actgggaaga gagaagtcaa attacctttg ttccagatg gtatgatctt
163681 ctggtttggaa aaacctagac tccataaaaa aatgattaga actgataaat tcagtaaagt
163741 ttcaggatac aaaattaaca tacaaaaatc agtagcattt ctatatgtca atagcaaaaa
163801 atctgaaaaa gaaatcaagg aagtaatccc atttcccatt tgcaatagct ataaaaataa
163861 ttaataataa ctcactctct caataagtgg tgttgggaaa actgcataac cacatacaaa
163921 tgaataaaaat tagacccttt taatatacaa aactggaccc aagttaatat acaaaaaatta
163981 acttgaaatg aattaaagac ttaaatgtaa gatctgaaac caaaaaactc tagagagaaa
164041 cataggggaa aagctccttg acgttggcct tggcaataat tttttgggat attacaccaa
164101 aagcacagac ttttgaaaaa ataaacaagt aggactacat caaactaaaa agcttctgca
164161 tggcaaaaaga aagtcaacaa catgaaaagg caacctacag aatggaggga aatatttgca
164221 aacctatata ctgatgagaa gttaatatca aaatatagaa aatatataag gaactcacat
164281 atctcaatac caaaaaaata ataacctgtt ttataatggg caaaggacct gaatagacat
164341 tttttcaaaag aagacacaca gatggccaac gagtgcagga aaaagcgttc aacatcacta
164401 atcatcaggg aaatgcaaat caaaaaccaca atgagatatc actccacacc tgttaggaaa
164461 gctattatga aaacacaaag agacaatgaa tattggcaag ggcatggaga aaaaagaacc
164521 cttgtacact gttggtagaa atgtaaattg caacagcctt tatggaaaat agaattggagg
164581 ttctcaaaa aataaaaaata gaactaccat acaatctagc aattccactt atgagtgtac
164641 atccaaagga atcaaatcac tatgtcaaaag agatatctgt acttcttgtt ttattgcagc
164701 tttactcaca gtagccaaga taaggaaaaa atctaaatgt ccatcaacgg ataaagaaaa
164761 tggggggagg ggtgtgcatg tatacataca caatggacta tttttcagcc ataacaagaa
164821 aggaaacccg gccatttgtg acgatatgaa tgaaccacga ggacattatg ttaagtgaag
164881 taaggccagac acagaaatat aaatattgta tgatctcatt tatatgcgaa tctaaaaatt
164941 tcaaacttga agacgaataa gtagaacagt atttatcagg agctagggga tgtggggaag

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FIGURE 2 (cont.'d)

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165001 aagcaaaata ttgggcaaag agtataaaact ttcagttatg agatgaaggc caggtgcat
165061 ggctcatgtt ggtaatccca atactttgga aggctgaggc agagggattg cttgagacca
165121 gectaggcaa gaaagtgaga cctcatctct acaaaaaata aaaataaaaag aatcagctgg
165181 gagtgggtggc atacacctgt agtcccagct agtcaggagg ctgagggggg aggatcattt
165241 gaaattggaa agtcaaggct gcagtcagcc aagatagtg cactgcattg cagcctgggt
165301 gacagagcga aacctgtct caaaaaaaa aaaaaaaa agatgaataa gttctggga
165361 tcaaatgtac agcatggtga ctatagttta taactgcgtt attacttgaa attggataag
165421 agcagatttt aagcatcccc agcaccccc caacatacac acacacaaat ggtaactata
165481 ggtggtgata gatagttaa tttgactgtg acaatcagca ttcaatatat acatatatca
165541 aatcatcaca ttttaccct tgaaatagaa actttgattt gtcaatcaaa tattttaaaa
165601 cgaaaataat cataatatta atatagcata caggaaaaaa tttcgtatct cgactgatac
165661 agaaaatttc atgataaaaa cactttaaaa caaaagaaat aaaagggaac tccctcaacc
165721 tgataaatgg catctgtgga aacccccagc tagcatcaaa cttaatacag aaaggctggg
165781 tgttcacctc ttgaaccagg aacaagacaa agatgcctgc ttttgccact tccatttgac
165841 cttgtactga ggttctggct agggcaatta tccctgaaaa agaaataaaa ggcttccaaa
165901 taaaagaaga agtaaaacta tctctactcg ctcatgacat gatcttgcat atagaaaatg
165961 tgcacatgta cacacacaca aaccattaga actaataaac aagttcagca agtttgaga
166021 atataaaatg aatgtacaaa aatcaagtg ttttctatat actagcaatt aacaatctca
166081 aatgaatta aaattccatt tacaatagta tcaaacataa attattttaga aataaaaagt
166141 gcaactgaaa ctacaaaata ttttgaaata aatcagaaaa gatttaagta aatggatcac
166201 ttgaacctgg gaagcagagg ttgcagtgtg ccgagattgt accactgcac tttagcctgg
166261 gcaacagagg gagactccaa agagtcgaaa agaaaagaaa agattttaat aagctgaaac
166321 atattctatg gatcagaaga cttaatatgt ttaaagtac aatattcccc aaattgatct
166381 acagcttcaa ctcaaccctt atcaaaatcc tagcttgctt tttggctgaa attgacaagc
166441 tgattctata atttatatgg aatctcaaag gatccagaat aacccaaaca atattgaaaa
166501 ataaagaaca gcgttggtgg attaacattt tccaatttca aaacttacta tagcactgcg
166561 gtaatcaagc agtgtggcac tgtatagcat gtacattaca gatcagtggg ctagaatcaa
166621 tgtccagaaa taaaccgtta tgtttataat gaattacttt ttaataaggt gtcaagacaa
166681 cgcaatggga aaagaataat gaattcaaca aatgatgcat ggacaaccgg atatgcataa
166741 gcaacacaat gaatttgaat tcttctatcg ctccatgcat aaaaactaac tcaaatggg
166801 tcacggatgt aaatgaaaag ctaaaactat aataatccta gaggaaaacc taggagtaaa
166861 tctttaagat gttattgtag gcagtgggtt ctcatagagg accccaaaat cacaagcgac
166921 aaaagaaatt ggacttaaag ttaaatactt ttgtgcttca aacatcatca agaaagtga
166981 aacacaaccc gcagaagcaa taaaatgtc tgtaagtcac gtatccgatt agagacttct
167041 atccaggata tataaataat gcaattcaat gataaaaaag ataaatagcc cagttttcca
167101 aagagtcaag catctgaata tacatctctc caaaaatata cagatatcca acaagcatgt
167161 gaaaagatgt tcaagccat ttgccagggt cacaacccca agacagtatg aggagatgct
167221 acagggactc tgctgcttca cagacatgaa gcgttggtga gaatgtaggc agccgccttt
167281 ggggacttca catccccgcc gccccacgca cggtagagct gtgtttaaac ttagccgaga
167341 tcaatacacg cgactgtgtg cccgtcagac cctgcgctgc cggcggggct gggagaggcg
167401 ggcgccagga gtgggcggga acctgggggt caggccccag ccgcgggaag ccgccagga
167461 gcgcgcgaaa ccttctccac acccttccag gcatttgccc gccgcgattc agagagccga
167521 cccgtgaccc ctggcctccc ctagacagcc ccgcattgct agatgtgccg tccgcctgc
167581 ctccgcgac cactggccat ctctgggctt gggcgcgctc tcggcgcccg cctgcccccg
167641 ccaggagccg caggtccagc cagtgaagaa gccgcgctg aaggagcctc tgtgctccag
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167761 atgggtcgct ctctctctgc agactcccg agcacccctg ctccaagtac cgcaagtggc
167821 actgagaact tggggagagc agaggctgtg cctagatttg tagggagtcc ccgcagctcc
167881 accccagggc ctacaggagc ctggccttgg gcgaagccga ggcaggcagg cagggcaaag
167941 ggtggaagca attcaggaga gaacagagtg acgaatggat gagggggtgg agccagaggt
168001 gcccagtc cctggctgca ggaacagaca cctcgtgag gagagacca ggagcgaggc
168061 cctgccccg cccgaggcga ggtcccgccc agtcggcgcc gcgtgaagag tgggagagaa
168121 tactggggg gcggggcggg gggcgggggg gggggcgggg gccgcggga gcctggagcc
168181 agaccggcg gggcgggcag cggccagggg acagtggggg aggaggtgc gggctgagcg
168241 accctgaccc cccccagtc gcgctggttc cgg

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FIGURE 3

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1      gggcgccgag gctccccgcc gctcgtctget ccccgggccc cgccatgcc tccacacgg
61     tcaccgtggc cactggcagc cagtgggttcg ccggcactga cgactacatc tacctcagcc
121    tcgtgggctc ggcggggctgc agcgagaagc acctgctgga caagcccttc tacaacgact
181    tcgagcgtgg cgcggtggat tcatacgacg tgactgtgga cgaggaaactg ggcgagatcc
241    agctggtcag aatcgagaag cgcaagtact ggctgaatga cgactggtac ctgaagtaca
301    tcacgtgaa gacgccccac ggggactaca tcgagttccc ctgctaccgc tggatcaccg
361    gcgatgtcga ggttgtcctg agggatggac ggcgaaagt ggcccgagat gaccaaattc
421    acattctcaa gcaacaccga cgtaaagaac tggaaacacg gcaaaaacaa tatcgatgga
481    tggagtggaa ccctggcttc cccttgagca tcgatgccaa atgccacaag gatttaccct
541    gtgatataca gtttgatagt gaaaaaggag tggactttgt tctgaattac tccaaagcga
601    tggagaacct gttcatcaac cgcttcatgc acatgttcca gtcttcttgg aatgacttcg
661    ccgactttga gaaaatcttt gtcaagatca gcaacactat ttctgagcgg gtcatgaatc
721    actggcagga agacctgatg tttggctacc agttcctgaa tggctgcaac cctgtgttga
781    tcggcgctg cacagagctg ccgagaagc tccgggtgac cacggagatg gtagagtga
841    gcctggagcg gcagctcagc ttggagcagg aggtccagca agggaacatt ttcacgtgg
901    actttgagct gctggatggc atcgatgcc acaaaacaga cccctgcaca ctccagttcc
961    tggccgctcc catctgcttg ctgtataaga acctggccaa caagattgtc cccattgcc
1021   tccagctcaa ccaaattccc ggagatgaga acctatattt cctcccttcg gatgcaaaat
1081   acgactggct tttggccaaa atctgggtgc gttccagtga cttccacgtc caccagacca
1141   tcacccacct tctgcgaaca catctggtgt ctgaggtttt tggcattgca atgtaccgcc
1201   agctgcctgc tgtgcacccc attttcaagc tgctgggtggc acacgtgaga ttcaccattg
1261   caatcaacac caaggcccgt gagcagctca tctgcgagtg tggcctcttt gacaaggcca
1321   acgccacagg gggcggtggg cacgtgcaga tgggtgcagag ggccatgaag gacctgacct
1381   atgcctccct gtgctttccc gaggccatca agggccgggg catggagagc aaagaagaca
1441   tcccctacta cttctaccgg gacgacgggc tccctggtgt ggaagccatc aggacgttca
1501   cggccgaggt ggtagacatc tactacgagg gcgaccaggt ggtggaggag gaccgggagc
1561   tgcaggactt cgtgaacgat gtctacgtgt acggcatgcg gggccgcaag tccctcaggct
1621   tccccaaagtc ggtcaagagc cgggagcagc tgtcggagta cctgaccgtg gtgatcttca
1681   ccgcctccgc ccagcacgcc gcggtcaact tcggccagta cgactggtgc tccctggatcc
1741   ccaatgcgcc cccaaccatg cgagccccgc caccgactgc caagggcgtg gtgaccattg
1801   agcagatcgt ggacacgctg cccgaccgcg gccgctcctg ctggcatctg ggtgcagtgt
1861   gggcgctgag ccagttccag gaaaaacgagc tgttcctggg catgtaccca gaagagcatt
1921   ttatcgagaa gcctgtgaag gaagccatgg cccgattccg caagaacctc gaggccattg
1981   tcagcgtgat tgctgagcgc aacaagaaga agcagctgcc atattactac ttgtccccag
2041   accggattcc gaacagtgtg gccatctgag cacactgcc a gtctcactgt gggaaggcca
2101   gctgccccag ccagatggac tccagcctgc ctggcaggct gtctggccag gcctcttggc
2161   agtcacatct cttcctccga ggccagtacc tttccattta ttctttgatc ttcagggaac
2221   tgcatagatt gtatcaaagt gtaaacacca tagggacca ttctacacag agcaggactg
2281   cacaggcgtc ctgtccacac ccagctcagc atttccacac caagcagcaa cagcaaatca
2341   cgaccaactga tagatgtcta ttcttgttgg agacatggga tgattatttt ctgttctatt
2401   tgtgcttagt ccaattcctt gcacatagta ggtacccaat tcaattacta ttgaatgaat
2461   taagaattgg ttgccataaa aataaatcag ttcattt

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10074431.000702

FIGURE 4

1 ttgcacgctn ctcagcccg gctgtactat tggctctacac gtgccatcgt gggttgctgc
61 acccatcaac ccatcatcta cattaggtat ttctcctaata gctctctttc cccttgcccc
121 ccacctcteta acacgccttg ttgtgtgatg ttgacctccc tgtgtacatg tgttgctatt
181 gtacaactcc tgccttatgag tgacaacatc tgtctgattt tctgtcttgt gttagtttgc
241 tgagaatgat gggtcccatc ttcacccctg tacctgcaaa ggacatgaac tcatccttta
301 atatggctgc ttagaatccc acagtataga tgtgcctcat tttctttatc cagactatca
361 ttgatgggca tttgggttg atccaagact ttgtattgt gaacagtgat tcaataaaca
421 tacgagtga tgtgtcttta tggatgaatg attgataatc ctttgggcat ataccacta
481 atgggattgc tggacctaat gggttgctg gatcctgatc cttgaggaat caccacactc
541 tcttacagtg taaaagtgtc tctatatata ctcacccct ccagcatctg ttatttactg
601 actctttaat catcaacctt cttactggag agagaagggt taattaccac taatgacgag
661 cctttaatca aattgttgtt ggaccttcc caacttactt gcgaaggggt catttgtaaa
721 cttacgccac cttttgatgg ggcagttttt ctggtttatc cgcaaagatc ctgggggacc
781 ccttttttta actcttttga agaccgttat atctgaacaa tttctcccat accgagagggt
841 ggcggttac aacccttgaa agtttctttt ttttttggg gccccttagt ttcacaaaaa
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961 tttttccag ggcacacagg tgtagtggcc ttcccagaa tttttctctt gggatccaa
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1081 taaggccggt ttcatttnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
1141 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncgc
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1441 attcaatgaa aaagtatgta aagtttctat cattctacta cagttgggtat tcaacaaatg
1501 ccactttatt cactttctgt taagcctgaa agaagtactg aatgacatca acgagtgcac
1561 ttcaacaaat ataatttgag cactgattac tcaataagca ttatgaggaa ctaaaatatt
1621 atcagcaaat gatggctgac atagaggaaa tgtgacagag taggaagatc cctgtactcc
1681 ctgtatcaaa ggactgagat tcttccactc aggaccatgt gtgaccccaa cagaaagtag
1741 aaatttacag aaagatacct ggcaaaacac ccaaatagtt tgaagttaaa aaatatacct
1801 ctgaataaca ccccatggaa attttttaaag attataatgt gaattaaaat gaaaacatat
1861 aaccataaca aaaattgtag gatacaggaa aactgggtgt catatagcat taactgttta
1921 cattacattt tagagaatca acttaattca attatctaag tttctatttt agaaactcat
1981 gtaaaaaaag gagagcatat ttaaaaaagta agcagaagaa caaaagataa gcatgacaga
2041 caatgaaatt gaaaatggaa aaatcataga gaagaatcaa atgaatcaaa agtagtttct
2101 tggaaaagat caataaataa aattgggtga tataatttac tgatattagg agtgggaaag
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2341 actttgccac aaagaaaatt ttaggttcag atgggtttcc taataaattt tcccatttta
2401 gtaagaataa tatcaattct acacaaactc attcaaaaaa aaaggagaga gaatacttta
2461 caacacgttc tgcaagggtca gtattaccct gataccaaaa caaaggatat tacataaaaa
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2581 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
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2761 taattccact ttgcaaaatg gacatttttt ttccctcttg agagtcagga aattaccagg
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3121 cacaggcccc aatcattgtc tatcaaaaaa catgcttggt tctcttttgg cttactatga
3181 aaggaaagcaa gatcttttcc tcaagcattt aagtgttgac tgtgggctac ccagtgtgct
3241 agacactgng gatcaaatc tgtgaggtta aaaatacccc ataactcact ggatagaaat

FIGURE 4 (cont.'d)

3301	tcaaaatgct	cgctatgttg	attctatgat	caacttccaa	ggggaccttt	ntacctccta
3361	tcttcatcag	caagcaacta	cattgatatt	gtagccagg	atctattccc	acgtcaaccg
3421	tgggtttcaa	atgtttgctc	tagctcaatg	gcctcttaag	ccactaacc	aatatgttgc
3481	tttttaccag	taaaaaagt	catctgggga	ataagttgg	gtatatttgt	ggttcagcca
3541	gcccatagat	cgtccagagg	accccaggct	taggaggaat	cctcagattt	gagagccact
3601	gtcctgtatg	atgcagatag	cacagctctt	cctgaaaata	ggaattcaaa	tgaggaaaaa
3661	tgaaaactct	cctaattatt	ttcttctgcc	tctttcatte	caagctcatc	taattatcat
3721	gctctattgt	gaagaatcaa	agaaagaact	cataaatata	ccttttgtgc	ctgtattttg
3781	aatgtacgtt	gtgcatgtaa	gcctttgtgg	ttaagcaaat	gtcaagaaaa	tccctagtcc
3841	cattgcttac	agtcaatatg	gggcaattca	agcaaaagt	atgcctctaa	tatggtttga
3901	aaattctgaa	agttcagaaa	aaatgttgct	acttcagcca	tctgatgtta	ctggatattg
3961	agaatgagac	ctcctctccc	tctgctttcc	tcattttccat	ctcctccttc	ctctttctcc
4021	tctctccctc	tcttttattc	tccttctccc	tctctctctc	ccatgcttac	tcccttctcc
4081	ttctccctct	ttcttcttta	ttctccttct	ccctcctctc	tctctctccc	ctttttcctc
4141	ccttctctct	ctccctccct	ctcctttatt	ctccttctcc	ctcctctctc	tctctccccc
4201	ttttcttata	ttcccagatt	aggccatttt	caaaactgg	ttaaacttcc	ccaaaagcat
4261	ttatgacaga	gaattgacta	ggatctcacc	tgaatcacag	agcttgccca	ttgaacacag
4321	gcaaagatca	agccattttc	tcttgatgtg	atgcttcagc	attttatgca	tttgaacaaa
4381	attttatgta	aaaaaaagct	tagccctttg	gtgacgggga	ttccttttct	ggatgatctg
4441	ccaaagaatc	aagacccaac	gtccagctta	tcaaattttc	tctggacctt	tannnnnnnn
4501	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
4561	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnccgtggg	aagacttcca	cgtgaacttt
4621	aaagtagttt	tttccaattc	tgtgaagaat	gtcattggta	gcttgatggg	gatggcactg
4681	aagattttct	tcatttttat	gactgcatag	cattccatgg	agtatatgta	ccacattttc
4741	tttatccaat	tcactgttgg	tgggcacct	ggtcaattcc	atgactttgc	tgttgtgaat
4801	agtatgcaa	tgaacatgtg	agtgcattgt	tctttttgga	ggaataattt	gttctctttt
4861	ggatatatac	ccagtaatgg	gggtgctggg	ccaaatggta	gttctgtttt	aagttctttg
4921	agaaatctcc	aaactgcttt	ccacagaggc	tgaactaatt	gacattccca	ctgccatgca
4981	tgagcattcc	cttttctcct	cagctccacc	aacatctgtt	gctttctgac	tttttgataa
5041	tagccattct	gatgtgtgag	atggtagccc	attgggggtt	cttttttttt	ttttaagaca
5101	gagtctcact	ctgtcaccta	ggctgtggca	caatgttggc	togctgcaac	ctctgctccc
5161	tgggttcaag	tgattctcct	acctcagcct	actgagaagc	taggggttaca	ggcacctgcc
5221	accacgccca	gctaattttg	gtatttttgg	tagagacagg	gtttagccat	attggcaagg
5281	ctggctccta	actcctgacc	tcaggtgacc	cacctgcctc	ggcttcccaa	agtgctggga
5341	ttgcatgcgt	tagctaccat	gggtgggttt	tgacttgcct	ttctctgatg	attagtaatg
5401	atgatccttt	tttcatatcat	ttgttggcca	cttgtatgtc	ttcttttgag	aagtgtctgt
5461	tcatatcttt	tgcccatttt	tcaatgggg	tgttttttcc	ttgtccagtt	gtttaagtta
5521	tttatagatt	ctggatatta	gtcctttgtt	gggtgcataa	tttgcaataa	ttttatctca
5581	ttctgtaggt	tatctattta	atctgttgat	agtgtctttt	cttgtacaga	agttgttcag
5641	tttaattagg	tctcacttgt	caatttctgt	ttttgttgta	attgcttttg	aggacttaat
5701	cataaattct	ttcccaaggc	ccatgtccag	aatgggtgtt	ctgagatttt	cttctaggat
5761	tcttttactt	caagggtctt	tattttaaatt	tttaaatccat	ctggagttaa	tttttgtatg
5821	tggcaaaaagt	taggtgtctt	gttttatatt	tctgcatatg	gctagtccag	tatcccagga
5881	ccattcatte	actagggagt	cctttcccca	ttgtttactt	ttggcaactt	tgtcaaagat
5941	tagatggctg	taagtgtgca	gatttatatt	tcagctctct	attctgttca	actggtgtag
6001	gtatctgttt	togtactagc	accatgctgt	tttgggttact	gtagtcttat	tagtatagtt
6061	tgaagccagg	taatgtgatg	cctctggcct	tgttcttttt	gcttaggatt	gctttttggg
6121	ctctctgttg	ttgttgttcc	atatgaattt	taggacactt	ttttccaatt	ctataaaaaa
6181	atgacattgg	tagtttggta	ataatgcat	tgaactgtga	gatagattgc	ttgggcaggt
6241	atggccattt	taatgatatt	gattcttcca	atccctgagc	atggaatgtt	tttccattta
6301	tttgtgtcct	ctctgatttc	tttttagcag	gttttatagt	tctccttgta	gagatctttc
6361	acctccttgg	ttagctgttt	tcctaggtat	tttaattttt	tgggcctttg	taagtgggat
6421	tgcaagcttg	aattgggtct	tagcctgaat	gttattgggt	tatagaaata	ctactaattt
6481	ttgccatcca	ttttgtatcc	tgaacgtcc	ctgagtcatt	tgtaatttcc	cagaggcttt
6541	gtggagtctt	taggttttct	atttttagaa	tctattcttc	ccaaagagaa	atactttccc

FIGURE 4 (cont.'d)

6601	ctctcttttc	ctaateggac	ccctttat	attcctttgc	ccaaggcttg	gaaagccctt
6661	ccatactttt	ttaaaaagaa	cgtggaaaaa	ggcccccttc	ttattctcgt	ttaaaggaa
6721	cttccatttt	cgctgtcaaa	tggnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
6781	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
6841	nnntttgttg	ggaatatccg	gtgcttattc	ctcttcagga	gttttattct	tccaaaaatg
6901	cagcttttca	ttcctcctcg	tttttctttc	tgtgccaaat	gcctccagcc	tttccatggt
6961	ggtgcggtta	gctagacatt	tttagtttgt	agtgattgtt	ttcgtttgtg	tttgtatggt
7021	tttgtgcccc	tagtcacttc	tgtaatgttc	gtttctgagt	ttcctttggg	gggattaacc
7081	tgccactgaa	gtgtcagctt	ccctgtcatg	ggactgtcct	tggaatgaca	ggttttcctt
7141	ccaccatagg	atctgccact	gtgaaggaga	tgatgagagc	cccctgatca	ccccctgcca
7201	ctgcacagga	agcctccact	tctgtcacca	ggcctgcctg	cagcagtggg	tcaagagctc
7261	cgacacgcgc	tgtgcgagc	tctgcaagta	tgagttcatc	atggagacca	agctgaagcc
7321	actgagaaaa	gtacgtggga	ggaagggatg	cttcaccctt	cctgaaacca	gtgaccccca
7381	gaaagctggt	gtctcagatc	atgaggtcat	ggcttgccctg	cgttcatttc	cttaaaaaagc
7441	tggggctggt	gcttacattt	gcattgtaga	gattgttgtt	tctgggtgctg	attttcaagt
7501	ccctcttctc	aggaagaagc	tctttctgac	cattcataat	ccttcttttc	ccttcaaagt
7561	aagactgctt	gcttgtcggt	gtcagtcctc	tggcctttga	ctacagactg	tttgtgacat
7621	atcttagcac	ctaattttat	acataattaac	tgttgacgtc	ctgcttctct	gattaggact
7681	gtctgttggg	gattagtatc	tccccagcac	ccagcacagt	gtagcataca	gtaaatttat
7741	ttgtatacac	ccatgataac	tatttgctgg	atgggagtgt	gagtaggtgg	atagggaaaa
7801	gaaaggaagc	acaaacgctt	cgtgatgtgc	aactgtcttc	agaaaggacc	cacaggcatt
7861	gcatgacacg	cagctgtctg	gaggcccatg	tactgctcc	ctctgagagg	agctttgtcc
7921	gccacactgg	cttctgtgtt	aaattttgac	tgtttcatat	atctctctag	atgcccgaca
7981	caaaagggtt	tgtctggaag	aataaaaaac	tgttcctatc	tcagaacatt	aatatataaa
8041	ttgcaagata	agtcacataa	tcaaatacta	gccaattaaa	tgctaaatgg	tgtgctggta
8101	gagcataaca	gtcattcaga	aaaggaaatg	ctcattatga	gctagagtgc	tggggaaagt
8161	gagcgatggt	agcctcatag	ggtgtttggg	tttttagagca	gttcttgaag	gatcactagg
8221	atlttgaggc	agagtgaag	gagtttagag	aggtcaggct	gtctgtggag	taaagcatal
8281	cctagaaaag	tgaaggtgaa	cattgacagg	gtgtcaagct	acgtgcgttg	taggaagttag
8341	cagggagcat	ggggcactga	ggcactgact	ctgtattata	ggtaggaaga	ccagggaaact
8401	tgctagtgtg	taaaaatccc	gcagaaaaca	accagattta	gagaaggctt	gtgcaaactg
8461	cttaaaaaaa	tgttttgccc	agtagaaacc	ttgtaattta	ttgggtgcct	actctatgct
8521	aatctctcaa	catgggaagt	ccttgaggct	ctattttcaa	ctaccctgca	tactactatc
8581	tggaaagagg	ctgtgactag	ggttggcaaa	ggatatgtgc	agagtgttta	cacattgttc
8641	tttctctcta	cctttatgtg	ttttctctctg	attcggaaac	cagtaaatga	aaaagaaagt
8701	ctggctatlt	ggagtaaatt	aatgagctcc	tagaggagat	gggactagca	gagctgtgct
8761	gtaccaggaa	ctcttagcgt	cgatttctgag	ctgttgctgc	caaagtagca	aggaccaaag
8821	agtgagcgtc	ttctgccatt	caccttcaca	atgtagtgtg	acccatctgc	tagtgtgttg
8881	tggcatcatc	aacctcttct	ttccgctcgt	ccatgccagt	cagcacatca	gggagactta
8941	aaacgtagta	cctgggtcct	gggccaacat	actgttttca	ttaggactga	aatcatagaa
9001	ttcttttatca	ggccatctta	tgtctgtctg	caagaataag	cagacaaggg	gatttttgat
9061	ggtagtctctg	cattcatctt	gatcctggct	tctttttcatt	gcatagaaag	ttggctgcac
9121	ctggtacctg	gttgaagcca	agtggtttta	ggagaacaat	acttggggga	atgcatctag
9181	tttgggaagg	gagaagtggg	gtggaaagcc	aatcttacct	acctacaatg	ctctcaccct
9241	accggagccc	ttcccagaaa	gcctgagcct	cacactctgt	gttgtctttc	tagtgggaga
9301	agttgcagat	gacgtccagc	gagcgcagga	agatcatgtg	ctcagtgaca	ttccacgtca
9361	ttgccatcac	atgtgtgggt	tggctcctgt	atgtgctcat	tgaccgtact	gctgaggaga
9421	tcaagcaggg	gcaggcaaca	ggtgagttct	caggctggag	caagctcagc	atggggcccg
9481	gagtagctca	caggagtcc	gggtcagag	gattttccag	ttagccaaaa	acgtctgggt
9541	ttccggagga	gggacatcag	ttaggaggca	ctagcctcct	ttttggcatt	tcttttctctg
9601	tgggtggtagt	ttttgaaacc	cagtcaggag	agttcatatt	ctggagcatg	agaatctccg
9661	caaactacat	cctataaaaag	caggaaagtag	ctggacactg	tcttccactc	ttctttgact
9721	gagcaacatt	ggatgagttg	tgaatccatt	ggtcagtgggt	gcaggcttgt	ggtccccaga
9781	tacttgaggc	tgagggatgg	aggattgctg	aggctcagga	gttcaaggct	gtagtgtgcc
9841	atgatcacac	ctgtgaatag	ccactgcact	ccagcgtggg	caacatagca	agactccatc

FIGURE 4 (cont.'d)

9901	tcttaaaaaa	caacaacaac	aacaaaggtc	ttcaccaggg	atctgcctag	gtcagcgagg
9961	tggttcatca	agannnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
10021	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnggagtg
10081	acttcacccc	gtggtgaaga	tgcggcacag	actggcgttt	cctacggcgc	cttcactgga
10141	aagcgccccc	gtggtcctgg	ggagaggcgc	gctccatccg	ccacccttcc	cggagctgcc
10201	cccgccatt	ctcatgggag	gaaatcgag	ggcgtgtgag	ccccgaccc	ctcgcccca
10261	cctctgccag	gaccggccgc	atttctgcac	tgtcccgcgc	caactgggaag	gaaactctct
10321	ttctcaattt	cctttaatga	ggacattgtc	ttttcagccc	tgccaccccc	tgcaatcgte
10381	ttccaggctg	caaacagcga	gtggggagg	gaacacatca	gcttttcctc	cctccacacc
10441	accaggaaat	ttcgcaaacc	acttggctct	cggcgccctg	gcctcgccac	acctgtgccc
10501	acagtctctc	tccgctgcag	ccccctgtgc	cattctccag	gccccacgta	cctctgcctg
10561	ggcccagtaa	gacctggtca	gatggccccc	ggctgcaaag	ccttctctgg	ccccatcaga
10621	gaggacgccc	aggtgaagcg	aggttcccct	gcccacccctg	caagcgaggg	ggcccttcca
10681	agagtgcagc	cctaggccgg	tgtgtgatgg	tggagacgcg	gtcccagagg	gcttgaacca
10741	agaatggaga	agacaaaggc	tgtctttagg	gagaaacttc	cctgaggggc	tgatgtgtgc
10801	gatcccattt	taatctcaca	accctgggga	ggagctgggg	ccgggtctca	ttgttcattt
10861	gaggacaccg	aggctcaggg	aacttagacg	actttcctag	ggtcccccca	acccccaccg
10921	gcccagggcc	ctctcccagg	caccctcat	ccccacacag	gctcctctaa	gctgcttcc
10981	tgtgggtccag	cccccttggc	tcagctcctc	aaatacaggg	acacctcttc	tctccccgc
11041	agaactcaag	ggtctccatc	cactgtgcca	gcacagaggc	ggtgctcaga	gtggggctaa
11101	gcttactgtc	cagcctgctg	ggccaggagg	ggcagaagg	cccctctcag	gattccttcg
11161	ctctgctcct	gccaataggc	catcactcaa	ggggctaata	acaggacgat	gtggagaaac
11221	gtgggctgca	gcacttctgg	ggccaagggc	aggggtgggcg	gcactgggga	gtacagggga
11281	ggggacctca	ctggggccag	aggcttctag	aagcttctgc	aagaaggggc	ccctcaccca
11341	tgtcttgccc	aagaagtggc	gaggggtggg	gtggcaaagg	aaacagctag	gtcagagaca
11401	agagatgctc	tgcaaagccc	tgtggtctcc	ccacgggtga	gcctcctatg	catgtaggac
11461	ctgagagatg	gcaggggcgc	gtgctccct	atggatgtat	ctccatttct	gggcagagac
11521	atctgggctc	tcacctgcaa	ttgagccaac	caagaaatta	tatttacttt	ttagagcgag
11581	cctccaacaa	attatacaag	cacttgagaa	taagccctcc	cactgtcttg	agagatggag
11641	cccagggagg	cagctggaaa	gatgctcctg	ccctcactca	ggagagatgg	tggagctggg
11701	agaggaggag	gcactccctg	ggaccagca	gatggacttg	actcagcaaa	tagatgcaac
11761	catatgtggg	gggtggggag	gcccagaaa	gcattacagg	ccagtgttct	taatcctggc
11821	tataacttgg	aatccaccag	tagccctaaa	atataactgt	gctggacttc	gctgtgttcc
11881	acagtttgtg	cagagtgggc	agcatggagt	ctgtaacact	aaacacacag	gattgagaac
11941	catatgtcta	ggctgttgtt	agccatgatg	gggatacatg	aaaaggagg	gcacagttac
12001	cttctatacc	acaggatagg	tgtcatttaa	accctgttaa	aatggactgt	gaccagctg
12061	gcactcaggg	gcactcaggg	gccaggtggg	tcacactttc	attttaatag	gatttaatga
12121	gcacctattc	tgtgacagct	gctaagatac	agaggctcct	gagatacaga	gatgacaatg
12181	accttcagaa	acactgaaca	gagataagaa	aggcacagtc	tggccttcac	tccaccatta
12241	attcctccat	ccatccatcc	atccatctat	ccatccatct	ctctgtctat	acttccatcc
12301	atccaccatc	cattcaccat	ccaccatca	atccatccac	ccatctatcc	atccatccat
12361	ctcactatct	gtcatccatc	catccatcca	ccatccatga	atccatccat	ccgtatatca
12421	atttctcatc	tatctctcca	tccatcccc	atccacctct	tcttccatcc	ttctctcttc
12481	ccttcatcca	tccattcatc	atccatccct	caacccatcc	atctgcctgt	ccatcggttt
12541	gattgtccat	ctgtccagta	ttctccatt	ccctccaaac	tgggtggcag	tactctccac
12601	ctcactacct	caccatcctt	attattccct	ccaaactgtc	tctttcacaa	gggccttctg
12661	tcctgectgt	cccatcctgg	tctgggacct	atcccaactaa	agctacatgg	ctttgatcaa
12721	caatcccaat	cccagagtag	gggaagggaa	gtgagccct	aactgccgtg	atgtttccag
12781	ggagatggtg	gatactgctg	cattactaat	ccagatgtta	ggttttaatt	tttctctcca
12841	gtagaccca	attgtggtag	gagaaaaatg	ccccagcttt	ggacacaaac	agacctggat
12901	tcaaatcctg	gttttgccaa	tttctgccta	aatgacttta	ggcaaaactcc	ttgaccttga
12961	ccccctggag	actcagtttc	ctcacctaga	aatggtcaat	aatattattt	acctcccagg
13021	atggccatga	agcttaaaat	agattattgt	accccccaaa	acaccgacac	aatgtttaga
13081	aataaataat	attattttta	gctttgaagt	ctggctgggt	tctcagcctc	gtctacctgc
13141	tgggtgtgca	gactcaaagc	cagggctcca	ccctcataga	ctgtcatctg	tgggtgtggg

FIGURE 4 (cont.'d)

13201	g tt g g c c t g g	c a c t a g c a g g	t g c t a a t g c t	c c t c a g a g g a	t t c t a g g t g t	a a a a g g a a a t
13261	g a a a a t c t t t	g g a c c c c a a t	t c a c t c t g c c	a a a a g g g a a a	a a t t a a g c t g	a a a g c t g a g t
13321	g a t g c a a g a a	a c g a a g a t a g	c t a c a g a t a a	a a g g t g a a a a	c c t c c a c a g g	t a g c t c t t g g
13381	t g t t c a c c t t	a t c a a g t g c t	g a t g t a c t a a	g c g c a a g a g g	a a t a c a t a a c	t g a c t a t t c c
13441	c c t a c c t g c t	c c t t t t c t t t	t g c a a c a t g t	g g a t t c a g t a	a c g t g a c c a t	g c c c t c c c t t
13501	t c t t c c t t c c	a g c c t g t t c t	c c t t t a a a t a	t t g a t g c c c t	t a a a g a c a t c	t t c g g a a a a a
13561	g g c a c a g t c c	a c c a a c t g t t	c c t g t g g a t t	t g t g t t c c t t	t t t t c c g t g t	a t g t c t t t t t
13621	t t t t a t t a t t	a t a c t t t a a a	t t c t a g g a t a	c a t g t g c a c a	a c g t g c a g g a	t t g t t a c a t a
13681	t g t a t a c a t g	t g c c a t g t t g	g t g t g c t g c a	c c c a t t a a c t	c c t a a t t a g g	t a t a t c t c c t
13741	a a t g c t a t c c	c t c c c c c c t c	t c c c c a c c c c	a t g a c a g g c c	c t g g t g t g t g	a t g t t c c c c t
13801	t c c t g t g t c c	a a g t g t t c t c	a t t g t t c a a t	t c c c a c c t a t	g a g t g a g a a c	a t g c g g t g t t
13861	t g g t t t t t t g	t c c t t g c g a t	a g t t t g c t g a	g a a t a a t g g t	t t c c a g c t t c	a t c c a t g t c c
13921	c t g c a a a g g a	c a t t a a c t c a	t c c t t t t t t a	t g g c t g c a t a	g t a t t c c a t a	g t g c a t a t g t
13981	g c c a c a t t t t	c t t a a t c c a g	t c t a t c g g t g	a t g g a c a t t t	g g g t t g g t t c	c a a g t c t t t g
14041	c t a t t g t g a a	t a g t g c c a c a	a t a a a c a t a c	g t g t g c a t g t	g t c t t t a t a g	c a g c a t g a t t
14101	t a t a a t c c t t	t g g g t a t a t a	c c c g a t a a t g	g g a t g g c t g g	g t c a a a t g g t	a t t t c t a g t t
14161	c t a g a t c c t t	g a g g a a t c g t	c a c a c t g t c t	t c c a c a a t g g	t t g a a c t a g t	t t a c a g t c c c
14221	a c c a a c a g t g	t a a a a g t g t t	c c t a c t t c t c	c a c a t c c t c t	c c a g c a c c t g	t t g t t c c t g
14281	a c t t t t t a a t	g a t t g c c a t t	c t a a c t g g t g	t a a g a t g g t a	t c t c a t t g t g	g t t t t g a t t t
14341	g c a t t t t c t c t	g a t g g c c a g t	g a t g a t g a g c	a t t t c t t c a t	g t g t c t a t t g	g c t g c a t g a a
14401	t g t c t t c t t t	t g a g a a g t g t	c t g c t c a t a t	c c t t t g c c c a	c t t t t t g a t g	g g g t t g t t t t
14461	t t t c t t g t a a	g t t t g t t t g a	g t t g t t t g t a	g a t t c t g g a t	a t c a g c c t t t	t g t c a g c t g a
14521	g t a g a t t g c a	a a a t t t t t t t	c c c a t t c t g t	a g g t t g c c t g	t t c a c t c t g a	t g g t a g t t t c
14581	t t t t g c t g t g	c a g a a g c t c t	t t a g t t t a a t	t a g a t c c c a t	t t g t c c a t t t	t g g c t t t t g t
14641	t g c c a t t g c t	t t t g g t g t t t	t a g a c a t g a a	g t c c t t g c c c	a t g c c t a t g t	c c t g a a t g g t
14701	a t t g c c t a g g	t t t t c t t c t a	g g g t t t t t a t	g g t t t t a g g t	c t a a c a t t t a	a g t a t t t a a t
14761	c c a t c t t g a a	t t a a t t t t t g	t a t a a g g t g t	a a g g a a g g g a	t c c a g c t t c a	g c t t t c t a c a
14821	t a t g g c t a g c	c a g t c t t c a c	c c g g g g c t g a	a g g t a c c g c t	t n n n n n n n n n	n n n n n n n n n
14881	n n n n n n n n n	n n n n n n n n n	n n n n n n n n n	n n n n n n n n n	n n n n n n n n n	n n n n n n n n n
14941	n n n n n n n n n	n n n n n n n n n	n a c a a t g a g a	a c a c a t g g a c	a c g g g t t g g g	g g g g t a t c a c
15001	a c a c t g g g g c	c t g t t g g g c t	a t g g g g g g c t	g g g g a g g g a t	a g c a t t a g g g	g a a a t a c c t a
15061	a t g t a g a t g a	c a g g t t g a t g	g g t g c a a c a a	a c c a c c a t g g	c a c a t g t a t a	t c t a t g t a a c
15121	a a a c c t g c a c	a t t c t g c a c a	g t a c c c c a g	a a t t t a a a g t	a t a a t a a g a a	a a a t a a a a t
15181	a a a t a a g t t a	a a a g a g a t t a	a a a a a t a a a a	a g a g a a c a t t	t g c c a c a t t c	a g t c t t t c t a
15241	g a t g g a a a g a	g g t t g c t g a c	a t a t g a t a g a	a t t a g a a a a t	c a c a c a t c t t	g t a a a t t c t c
15301	a t t t g t t t a a	a a a g a a a t c a	t a c a a a t t a g	a t g t t t t t t g	g a g a t g a c t t	t t t a a a a t a g
15361	a g t c g t t a g a	t c a c c t c t g t	a a g g g a t a t g	t c t a t a t c t g	t t c a g t g g g t	t a g g g a c a t
15421	g g a t c t g g a a	a g c c t g a g a a	g a a a a g a a g	g t t c t a t a c c	a g a c t t g t g a	t a t t t a g a c a
15481	t t t t c a t a t t	c t a t c c a t t g	t t t t g t g t g c	a t t t t a t t c c	t c a c t a t t g t	a t a t a t a g t t
15541	g a c a a t g c t a	a a c t t t t t t g	t g t a t t c t t t	c t a t g t g t t c	c g a a t g c c t a	a t a t a t g t c a
15601	a a a t t a g c g g	t a g t a a a a t a	a t a t t t t g t a	a a t a t c t t t t	t g c t a a a a t t	c a t a t g a a a t
15661	g t t g t t t t t g	g a g g g g a a t g	g c c a a a c t a c	c t g t t g a g t a	a t a c t c a t c g	t g t t t g t g t c
15721	c t g g t t c a g g	g g a g g a g g a a	g g a g g g g a a a	g t g c a g a g a g	c t c t a t g c c g	c t g t g t t t a c
15781	a g t g a g g c a a	g a t t a a c c a t	t a t c t c t t a t	g t c t g t g c a t	t t t g t t t t a c	t t a t c t g t t t
15841	a t g t a g t g t a	t a t a a a g g a c	a a a c g a g t c c	t a a t t t a c a a	c a t c t a g t c t	t t t t a g a t g t
15901	t a a a g a g g t t	g c c a g t g t a t	a a c a a a a g t a	g a g t t a g t a a	a c t a a t a t a t	t t t g t a t a t t
15961	t t g t t t t a a a	a t t c c t a g g a	a a g a t t g t c t	t c c t a t c t t t	g a g c a t t c t t	g c g c a c t g a g
16021	t t g a t g g a g a	t g g g a g g g a t	t c t a a g c t a g	g a t g t t c t t a	t t t g g a a g a c	t c t t t c a a a t
16081	t a t a a c t a t g	g t t a c a t g t a	t g c a g t t t a t	t c g a g a c t g c	t g t g t a t a t a	g t g g a c a a a t
16141	t a a c t c c t t a	c t t g a a a c a c	c t a g t t t a t c	t a g a t g t t t a	g a a g t g c c t g	a t g t a c g t t a
16201	a a t g t a g a g g	t a a t a a a a t a	c c a c t t t g t a	a a t a t c t t t t	t g c t a a a a t t	c a t a g g a a a t
16261	a c t g t c t t t t	a g a a a t t t a a	t t g t t a a g c c	a c c t t t g t g a	g c a g t a t a g t	a c t g t c t a t a
16321	c t t g t t c a a t	g g t t t a g a g g	a g g t g g g a g g	g a a g a a a a a t	a t g t g a c t g a	c t t a t t t c a c
16381	t a a g c c t a a t	g t c t t t a a g t	t t c a t t c a t g	t t g t g g c a t g	t g t c a g a a t t	t c c t t c c t t t
16441	t t a a a g c t g a	a t a a t a t t g c	a t t g t a t a g a	t a t a t t a c c t	t t t a t t t a t c	c a t t t a t c c a

FIGURE 4 (cont.'d)

16501	tcaatagaaa	cttggggttgc	ttccatattt	tagctatcat	gaatattgct	gccatcaaca
16561	tgttgagttc	ctgtattcaa	ctctttgggt	aatacccaga	agtgaatttg	ctgaataagt
16621	atggtaattc	tctgttaaat	ttttgaggag	ctgctgattc	atacttttac	gtataaaata
16681	ttagacctta	aatgtattat	gtaaaaacac	taagtatttt	taacattcta	gagtaaagaa
16741	gggtgtttct	agcaagacag	aaaagctgaa	acctcaata	gaaaagcctt	gttaatgtta
16801	tcacataaaa	tattcaaaat	ttctgaacac	acagacacac	acgcactaac	gaaaagctat
16861	ttacaacttg	tggtagatga	agaaataatt	tcttaacata	gcaagaaccc	aggcaaatga
16921	ttaagaaaaa	gaataatcat	acaaatttaa	tacatgtgag	aagctgttca	gcctttccca
16981	ttaattaaag	aagtaaaata	taaaacaaaa	catataattt	ttcacttagc	agagatgaaa
17041	taccaaaaaca	gatgggtata	gggtgtggaac	atacttcctt	ggttgacagt	tagccaatat
17101	ctattaaaaat	cccttgccac	agtaatttca	gttctagaca	tttgtcttat	attactgtat
17161	ttattctgtc	ctgtaaccat	aaattccaca	gctgcctagt	gatggttcta	tatttaaagt
17221	gaatgcttac	tctcagttat	gttttttctt	ttgagatgga	gtcttggtct	gttgccaggc
17281	tggagtgcag	tgccatgatc	tcagctcact	gcaacctcca	cctcccaggt	tcaagtgatt
17341	ctcctgcctc	agcctcccga	gtagctagga	ctacaggtgt	gcaccaccac	gccagctaa
17401	tttttgtatt	tttagtagag	atggagtttc	accttgttgg	ccagtatggt	ctcgatctct
17461	tgacctcatg	atctgcccac	cttggcctcc	caaagtgcctg	tgattacagg	tgtgagccac
17521	gacaccagc	cagtattttt	ttttttaaac	cacagcttct	tcattttgag	tcactctctaa
17581	atagctgcaa	tttactataa	cttaggggtt	acaattttta	aaattgtgta	tgtaaggtta
17641	tccacatgat	gtttgatata	cttcttttga	cataaatata	cacaatgaag	tgattactac
17701	agccaaataa	tgattaccat	acctatcatt	gctagcgttt	agaaagacaa	ctgattttta
17761	tgtgctgata	ttgtaccctg	caaccttact	gaatttacta	aatctagtag	ttttttgggtg
17821	catccttttg	gattttctat	taacagaatc	atgccttctg	caaatgtaag	taatttagct
17881	gcttcttttt	aaatatgtat	gcctcttatg	tctttttctt	ggctatgttc	ttttctctgg
17941	ctagaacttc	tagtacaatg	tccagtgtca	gtgttgaaaa	tgggcatcct	tgtgtgttct
18001	ctgatttttag	gagtaaagct	tacagttttt	ctacccctga	gtatgatttt	agttgtgaga
18061	ttttcctata	tgccctttat	catgctaaga	aagttccctt	ttattttagt	ttgctgattt
18121	tttaaaatta	tgaaagggca	tttaatttta	tcaaataact	ttttctgtgt	ctggtgagag
18181	tttggccatt	ttttttctat	tgaaatgggtg	tattatggta	gctgattttt	ggatgtgaaa
18241	ccaaccttgt	gtccttgagg	taaatcccat	gtaatcatgg	tgtataattc	tttctatgta
18301	ttgctggatt	tggtttgcta	gtattttgtt	gggaactttt	gtgcccataa	gataagaggt
18361	attgatctat	ggttttcttt	tccgtgtgat	tctttatttg	gtttttgtgt	cagggaaata
18421	gtggcttcat	aaaatggttc	agaagtgtac	cctcctcctc	tttttggttg	aagagtgtga
18481	aaaattggta	ttatcaaagt	tttagtagaa	ttcaccagtg	aagccatttg	cttttctttt
18541	tgggtagttt	ttgattactg	attcattctc	ttaatgtgtt	ttaggtctat	tcagattgtc
18601	tgtttcttct	tgagtcagtc	ttggtagttg	tgtctttctt	gaaatttttt	catttcactt
18661	aaattatcct	atttgtcagt	gtacaattat	ttttgggtat	cctttataat	cctttttatt
18721	tctttaatgt	cagtagtaat	gtctcttctt	ttatttctga	ttctatagtt	tgagttttct
18781	ctcctctttc	cctgatgaaa	ctgaagtttt	ttccatttta	ttgatttttt	tcaaacgatc
18841	aaattatttc	attaatttgt	gctgttatca	ttatttcctt	ccttctgctt	acttaaat
18901	agtttcatat	tttttgtaag	tgtcttaagg	tagaatttta	agttattgat	ttagaacttt
18961	tcttaataca	agtgtttaca	gctgttgata	ttactctaat	tacttcttta	gctgcatcac
19021	aattgttttg	gtatgttgtc	ttcattatta	ttcgtctaaa	aatattatct	aatttctgtc
19081	ttgatttctt	ctttgactca	tgaattgttt	tagagtggaa	atttcatttt	aaatttccaa
19141	atatttgatg	atttcccaaa	tttcccctgt	tgttgatttc	taattttatt	ccattgtggg
19201	taataacata	ctttgcatta	tttctatcct	tcaaatttat	tgaggtgtgt	tttatggcct
19261	aatatgtggg	ctatcttcta	gaatgtttca	tgctcacttg	acatgaatgt	atactttggt
19321	gttgttggtt	agtagaatgt	tccatagtc	ttgaggtcta	tttggtttgt	agtattgtct
19381	agtcctctct	tttcttgggt	gatccgtcca	gttgttctat	ccatttttga	acgtgtagta
19441	ttgaagtcct	tgactatttc	tgttgactcg	gttgacttgt	ctatttcttt	cttttctcag
19501	gtctgttttt	gtttcattta	ttttgggtgt	tcatatata	aggtgcata	atgttgataa
19561	cagttatatc	ttcctaattg	atggattcct	ttgtaattac	aaaaggccac	tctatctcta
19621	gtaacaattt	ttgtttttaa	gtctatttgt	ctgatatcag	tgtactgact	ccagtggttt
19681	tgtggttgct	gtttgcataa	tatatttttc	ctgttctttt	actttcattc	tgtgtcttcg
19741	aatcaaaatt	gtgtttttct	cagacaatat	atacttcatg	ttttcttctc	caatataaca

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FIGURE 4 (cont.'d)

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19801 cctttgcctt ttgattgcat tgtttattcc attcacactg catattatta tttagtggga
19861 tttatgtctg tcattttagt tcttttttgt ttttgtttg agacagaatc ttgctctgtc
19921 acccaggccg gagtgcagtg gcgtgatctc ggctcactgc aagctccaac tcccgggttc
19981 aggccattct cttgcctcag cctcccaagt agctgggact acaggtgccc accaccactc
20041 gtggctaatt ttttgtattt ttagtggaga ctgggtttca ccgtgttagc caagatggtc
20101 tcgatctcct gacctcgtga tctgccacc tcggcctccc aaagtgttg gattacaggc
20161 atgagccacc gcacgcccg attttttgtt ttttatatgt atcatgtcct tgttgttcc
20221 gttttgtcct tacttctttc tatttcattg aattaatatt ttctaataa gtatttaagt
20281 tttattaata attttatcac tgtattttta ttttttagtg tttctctagg attttctgta
20341 tatactctat cagtatgagt ttcagattca cactagctta attccagtaa tatgtagaaa
20401 tgttactcat gtagaactta attctcttgc tcttttggtg ttattttatt tatattatat
20461 caattaatgt tacaaagata tacattgttt aaattattat tgggtgctatt attagcatac
20521 ataacaccca catattaaaa ttgtatatat tgcatatatg tattatagaa ttgtatatat
20581 tatagggcca atagtatatt gtatacatgt tattttatat aattgttttt aaaatgagtt
20641 aagaaaaaag aaaaatgcat ttctactgtc tattatagaa aaataattac atcatactga
20701 acgtcttcac cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
20761 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
20821 cctaaaagaa ttgctgagac aaagtatatg tgcctttgtc atcctgaggg cagttgtcat
20881 cctgtggagg tttaccattt gctctccac cagcaatgta taagcatacc tgcctccaa
20941 cacttcgcc aacacatatt atttgattaa ttttcttggc tgataatggt atctcattgt
21001 agttttaatt tgtatttctc attgtgagag aaatgaagca tcttttcatg ttttgagagc
21061 catctgtgca tcttttccca ttgtttctgt taagtcatgt atttgcagta ctgtaatttg
21121 tgatgagttg taaacatgag ctcttctggc ctcttaacca tccttatcca gctgtcttc
21181 acgttcctcc ttgcctaaaa acaagctcac tcaaacagat cattcctgtg gccctctccc
21241 ttttgaaata aatcagatgg gcaaatttgc ttttgttagg ggctgagac ccaaatgttt
21301 aaaagtagct tagctgatga gtgaaaagga ggcccagttg ggggttgcac agaaaatgag
21361 gggcgtgggt aatagaggag gctgggcagt aacctggcag aaggcgccag aggccaagga
21421 aggtgcgctg gtgtcctgca gtgagaagga tgtgtgcaat atcaactggg taaacacact
21481 gctatagctg ctccagcgac agcaggcact ctgagaaggg aactgagaaa aggggaatgc
21541 cagtttctgc caaggatata tggaaaagtt ttttttcccc gtatgttctt tggcaacctt
21601 gttaaaatca tttaaaatgg tgaatttgat aacaaagcca gccactaaaa gacttggatg
21661 tagcaaaaca aattgtcaaa agtattttat catttctaag aaataaaaata aactgggatt
21721 taggcttggg tagaaatcca gaggttttgt ttggcataat taattacaac atctgaagaa
21781 gggaggattt ttacaagaat tttttttttt gtagtgagat tgctttatat tccttttcat
21841 gactggagag tctgtcattt ggcaaccgcg aaagaacttc aggaacagag ggcctaagtt
21901 ttcttgacac atttggattt ttgcatgatg aacatttgca cttttattag taattgtcga
21961 gtctgtgtgt gtctgatcct atggagagga gagtgtaggt gtnntctctg gagctagtag
22021 ntgccccogn gctcacacgt gccacactgc ctgctgcttt cangaaagag caggacggct
22081 ggtcctgtcc catctagtga ggtcctgtcc catctagtaa ggttctgtcc tcagagctcc
22141 taagagggga ttgctggcct ttgattacac tggcttccag aatctgacca tggaaaccatt
22201 atttgaagct gtcagcttca ttttgttgtt gatcaggcca gtcttttagg tctttgttgg
22261 ttgatagatt tctctcaggt ctatagcagc aacaaataaa gctcttttaa attattttct
22321 tgaccattct gcctatggat tggttctgac ctttgaaatg tttgctgtcc ttttagatct
22381 gacagaagga gcctcttctg ggagctgtga agacccaca gatctcactg gttttcttgc
22441 ttttattgga agagttagca tttgttgaag tttatattta tgtaaaataa caataagtag
22501 attttaaaat ttttctttta attctgtgat ctaataagaa gagagactct ttctctgtca
22561 ttgggaggct tgatgaggat cggacatacc tgctgagagt atcctgtaat gttttcataa
22621 gattggaaat ggtgaaatga gagcagaaat gtaggcagag gatgccaacg ctgtttccta
22681 tttcctaagt aaaactgagc agggcagaat ctccccagcc ctgccagaac tcccttcttc
22741 cttgggtccg ctgtcactgt catgctggcc ttgacatctg ctacaagtgc acacacatgg
22801 ggaaccacac agggaagtga acacatgtcc tgacgtgtgt gtgtgcctgg tgtggctgct
22861 tccttgatcc aggttttgtt ttgttacgag gctctgccct cctaccttca ggccttcttc
22921 tcatcatgg gcacgcaagg atggaatcgt taccacagag tacacttttt gacttggatt
22981 acttgtagtt tagtactgga gttcagaact ttaatttccc atcagaaacc tgcttcccgg
23041 acccaggaca ctgacctga ttgggcacga ttttccagat aagaccttac ctcttcccaa

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FIGURE 4 (cont.'d)

23101 caggggtttgc cttcccttca gaatacagga aagtacacgt ggttccaaga ggaccatgct
23161 cttactaaga taaaaggagg gaggggtgact aggtactttc ctctgctgcc atcccttgaa
23221 ggaagggggc ttccttcaat gcctcatcag ttccagggag tatgcttgac ccagcaacac
23281 agaggaagaa gtgacctcat agcaatgagg ggcaagcatg tggatattgc tgggtatttc
23341 ttcctcaaag tctacctggg gacaggtgat gaagacgctt acttctctgc aatacaccgt
23401 gatcaggcct tggcttctcat gacacatttt agccttgctt atgtgtgttg aacagagctg
23461 gtcatectca gaaataaaaag aagagagcaa taagtacagg aaggctttca gtcccagaat
23521 agtggttagga ctaaagtca gagaacaggg ggactgtagg agtttgggga ccttagcatg
23581 gataccctct caatctgctc ccctgtggta taaacagtaa agccattgtt actaaaaggc
23641 cttgagtgc tgtctctggg gcaggtggag ccagtgtagg gtgccccgag aggaggatgc
23701 tggagagggg acagtgtcta aggcagttgg agaaaaagga caatggctta tgcagtacgg
23761 cctagaagat gcaagggatg tcacagcata gtgtccacag gcatccctag atgtctttca
23821 ttttgtttca ggaagaatat tgacaaagg agtgatggga ggggtatttc aaggatgcta
23881 ttttcatgtg tccaagtaaa cttaagattc ctaagaactt tgacctctaa tgcttttaaa
23941 gaccgtgtac ctcatgccca tatgcacatt cagttagaaa ataatgtag attccttgggt
24001 gaattcgaag atgtgctcat ggagtggcac agcgtgatct cagtgtacac atgaagcatg
24061 ctgatgagag cttcttggat cttgtttctt caggtggact tgcattaaag tgctgttgaa
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24181 gctctctcca ggctgcttca tttgctgtga ggggtagggg gaggaggagt ttccaggcaa
24241 tggccttata tgttctgggt gttgaccaag ggtcgggggt cccaaagggt gagttccagg
24301 atgagagtgc acccttgggg atggtactta gaaagagtgg ggactaggcc tcagccaggg
24361 aatgggtggg caggggtggg ctcccttggta tcaaggagtt agggccaagg gccatgcagg
24421 tgggcctgca gaaggtgggt ggtgatattg cctttctgggt gataacagac tcgtggcact
24481 gttttcctgg ggctgttggg gttgcatgga gcagattctt actcaggctt actgtcttaa
24541 ggaggggaaga atgctttttt atgaatacgc ataggtctgt ggggctgtgt agcctgggga
24601 atccgaggct ggcgtgggag tctggggccc tctagcgggt gtgggtgcac ctcagctcag
24661 tgccactcac tgtccctatt tctctctgtc catttctctc ctactgcag tgcttctct
24721 ccttctctaga tttttttctc taagtttgac tattcaccac cccagagact ctgttctatc
24781 ccatgacctc ttgctgtact ttctttcaaa tctaaatttt cttgattatt tttcttaatt
24841 tacagtttca agattagatc tgttgggagc attctgtgct ctacctcagc ccttgggtga
24901 gctatggatt ggtgtcccc atggtgacgt ggtctggact ccttttgtg tgaagagctg
24961 tggcagggca gtgaggtttt gtggaactca gggagcatct ggcactatgt atgaggttgt
25021 gaggtgggag agagctctta aatctaccag ccttgttgat cttgggaact aggagaggt
25081 gctaggggaag ccagtgccag caggcctgga gcctcatatt tctttggcat ttgtatgata
25141 ccttctagta cttcgttttt tgacttatat atgaactaac tcaatttaga tgcttagaaa
25201 ataaacggcc actggacctg caagagatta gtagtgggtg tccatagcct tagacatttc
25261 ttacactttt atccacagat aagaaaaaaa tagtgatatt tgatttgtt tgccaaggct
25321 tagaaggatc taatatgtgt tactcgttga gcagcgggaa gcagcagaca tttctaggg
25381 ttctccctgt caccattcag gagacagtgc acacaatccc cttggctctt acctgaacac
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25501 tgtcctcctt ctctcgcact tctatcacgc catccagcca ggacatctgc aggtaacact
25561 ctgcttcaga tgctgccatg atcagtgtgc agccagaaat aagcattagt gtctgtagg
25621 tcttgaattt ccatttgcct aatcaatctg cctttggctt aaacagttgg cgagttttat
25681 gtgtggtttg ctaccaagt taccatgct agtctcattt cttcactatg atgtctatc
25741 tcttttaaaa ttgtttttac tttctgtgct tttatcccac tgttctgcat gcagttccag
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25981 taagaatacc aaagccagaa gaacactaaa gttctcaagg tccctcaatg atgtgggtga
26041 gaaggcgag gatacttcag aaagttttgc ctatgtggaa agaacttgtt ctgaagggaa
26101 attaatctc cctcaagata cgtgtctcag aactaacagg tttcatcata aagaaaaaag
26161 aacctgaac cacaaacctc ttggcaattc caaacattct tgtgtttcat gcctttctgc
26221 ggcctgctca actgcctcag agtggaagc tggcaagggg ggcaggcccg gcctgctgct
26281 ggaagagaag gcggatgggt aggccacgtc ccgaagccgg caactgctcc agtacctgtt
26341 ctactctcg cacggcttga gcgccagcag cctgcacagg tccatgagc tggagagctg

FIGURE 4 (cont.'d)

26401 cgctgctcgc ctgcacactg ccaagtcctc cagcgggctg gcagggagta tgggcttctg
26461 ctctgacgag atgggagacg acgatgtctt tgaggacagc acatctgcaa aactgaagag
26521 taggggttctg cgggcgcccc tctgctccac ggaaaaggac agcgacctgg attgtccttc
26581 tcccttctct gaaaaattac ccccatatc tcccgtgtcc acgtcagggg atgtctgcag
26641 gttgggttgc caggaagtgc cattctagcc atctctgctc gcacaggaa cctcctcttg
26701 ctttagtatg tgaagtttca ggaaaatgaa gtaataggaa gttgtaacca gttgtgggtt
26761 gatgggttttc tccagaagaa tggagtatca atatcgtttg aaaaacttaa ttttatgat
26821 gtgagtccca agatagtttt acaaatgata aaagaggaag aagctggctg ggcgcagtg
26881 ctcacgcctg taatcccagc actttgggag gctgaggcgg gtggatcacc tgaggtcagg
26941 agtttgagac cagcttggcc aacgtggcga aaccccgctc ctactaaaaa taaaaaatt
27001 agccgggcgt ggtggcgggc gcctgtaatc ccagctactc aggaggctga ggcaggagaa
27061 ttgcttgaac cgggaggcg gaggttgagc tgagccaaga ttgcgccatt gcactccagc
27121 ctgggcaaca agagtgaaac tctgtctaaa aaaaaacaaa aaaaaacaaa aaaaaaaga
27181 ggaagaagct acacatatta aaggccaagc tgactcttct aaactaaaaa taagtagact
27241 ttgcataaag aaactggaag aaagaaacta gtatcttcag tttccagcc ctttccagcc
27301 gattttaagc attgttgcac ctcccagcct cttttttaac ccttgctccc tacctacccc
27361 caaaagggtg gtggggactg gctgttctcc agtagctcct tccttccctc tttttaactg
27421 aggtgtagcc acctatgtcc catcctaact ctgtttcccc cctttatctt cccttgtgca
27481 gcaccttgt ctggcctcca taattcactt tttgtcatga ctcttgtgcc ctctcattc
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27601 agagatcccc tactaaaaac agcctgagag cctggctcct tccaggacga gtgccccaac
27661 ctgttctcta gctgctggaa aagaccctc tgtttcttaa aagcctgtta agttccttca
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27781 ttctcactta ttgctattag tgggtcccaag aaaaagagat gaaattgcag catcttgtaa
27841 tggtagtggg ttttaggtcta ggagagaggt actgtcatct ttgtttactt tctgagagac
27901 gacagaaatg tgtagtgtg gggatgaag gtaaagtcag tgattatagc taaaaagcaa
27961 acgtcattta aggtcactg tatttttgga tgttggaaatg cagcgcttac catccataca
28021 agaaccgcgt gggaggggcca agaccatccc gtgcgcggcg ggaaccgcga catccgccac
28081 tcggatgccc gctggagcgg gcggagacc acgcgcgcgc caatgtcccg gcgcgcgggc
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28261 cgccactgcc tactgccagg ggccgggggt gacgacaaaa ccctcgggtg gccgcgcctg
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28381 aaggtgagag ggcggtggcg cccgggcgt gaccactatc attctccgc acacggcga
28441 agcaggagc accacgggcg gcggcggggc cgcccgctcg ggccaaagag cccgcccgc
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28681 cgggggggtc atttacaagg gacgtgggg acgaaggagg ctggggcgaa gatgagtcca
28741 ggggttgggt tgagagcgt gcgcagcgg gctgagaaga gaagctgacg agtgactccc
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28921 cagacgacct agctacatgg atggcagcgt cctgaagggg gatgatcggg agggagtggg
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29221 tgcctgtgga ggaagggagg gacgtagcag caggaggaag ggtgaggacc caggctgggg
29281 atcgggagaa gtgatggcg aggaagaga ggcgggaaga ggagggggcc tgcctgctg
29341 gcactggaaa gcaaagcgtg ggtttgtata tgggaagaag accacatccc ctcttatcgt
29401 catcccaact cagaaacct ttggcccaa gtcaccaaag cactcatagg aaccactttt
29461 cctgtgacac aagtaggatt ctcccactt taacttccca aatgctaccc gaaagcctct
29521 gaaatccttg gaaattttaa aaataatccc cttctattaa ctgatgccta taaaacatat
29581 tgactttcat taaattttgt tatgaaatca gggatgtgtc ccattgtaaa ataaatttgt
29641 ttggaaaatg taggggtgga tcccatctaa aaatcagacg aggctagaaa atttcaattt

FIGURE 4 (cont.'d)

29701 tattttgctaa ggtagcatca tgttggttaa aatgcatcat aaaataagac caagagttaa
29761 tacaaagcat gaagtcattgt ttccctcaaa aaaatgattt gttctgtagt caaattaatt
29821 tggaaaacat tgcaaaactct tcagcagtggt ttctcaaagt atagcttgcg tcagaatccc
29881 ctggggccct tgctaaaatc tggatggcta cactccccgc ctagagtggg ttaaactcag
29941 tgcccactgg caggaaactg aaacttggtt gaagtcaccg aggaggcctt ccccgtaaa
30001 cctctggctg ggcacagctt ggtttcctcg ccgctgcttc tgagtaattc tggcacgcag
30061 ttctctctag ccactgctg tacctggaag ggggccagcc ctctcagca ggctttgctc
30121 ctgcccgtga cagcacaact gtggcgtaaa aaatggaaaa gctggtagca gaaggaaaga
30181 gcaggagac agaggttagg tgaacctcaa tggcctcatt aaagcaaatt gagaaagaga
30241 gtttccttcc cagtggggcg ggacagtgc gaaatggggc ccgtcctggg agaagtaggg
30301 gcgaggggtg gggggctcac cgggcacatg gccaacagct ggtgcccagc ctggggccaca
30361 gtttggcaca ggagaaagct gaagatgcag gagaaagcta ggtcactgcc cctaggccag
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30481 cttgcagggt ccttcttttt acaaaagcgg gtcttcgaag cctgaatat tccagttatc
30541 tgtaaggata tagaaatatt ttgctcttag atgacatgta aatatgttcc tcctaactcc
30601 acttcttctt acatctgttg ctcttcttga gaactaccag acccaccctg ttttcagagt
30661 aaactcctct ttttagagtc acaggggcaa gggaccaccc gggacctcag gtgccccagc acaggacctc
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31381 tggcctccta ggagaccag ggtagccagg ggatgcaccc ctagacctgg cagggcaggc
31441 aaaggatgga aggggattgc tgttctgcct ctaggagttc cccctgtggg ttgctccagt
31501 aggagagacc cccagtgtct cctgcttatt caccagggtga ttccctgag acaacagagc tgggatgtca
31561 ttgctgcctt catgcatgtt cccaggctct cccagcctc ccatgacaag gtgtgtgtct
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31681 tcaggaggat gtggggaggc cctgactctc cagctttcc ccatgacaag gtgtgtgtct
31741 acagctcaga cccagccatg ctccactga gaagtgggtc caggcagagc actgggtcct
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31981 gccctcagca tgcatagggc agcaggcata gattcataca cgtgagtttg cacttaagct
32041 gcagtaagag ctacagagga aatgaacaga gacagcatca ctccagttag cctccagat
32101 acaccccatg tgccagtaa gagaatggca tagtctattg ggacagccac atcaaaatc
32161 cacagaccag atggcttaaa cggcagatat ttgtctctca caggctccga ggctagaagt
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32581 tgagctctga ggggcaacca gagtcaaggc tgaagagtgg gcagtgattg agcactgacg
32641 gtggagaggc aacaggctat cttgttaate tcagtctttt gtgtgccaga gagagaaact
32701 gaggcacagt gtgtcatggg gaacactggg cagcactccc acgctcctgt cctgcactct
32761 gcagggttat ggaggaaagg tgggaagtct ctcccctctt ttccacctt cctggacca
32821 tcccacaccc tgccctctcc aggaagccct ggggattgct catacactca catctcactc
32881 cttagtacct gcagcctgca ttctgaattt agcaagctct ggccttgggt ttctattttc
32941 ttgtcctgtg cagtgcagcat ttggaaactt ctctcagca ccaaacacgg agccatttag

FIGURE 4 (cont.'d)

33001 cagaaaatac atgagttttc aagtcaattg aactgttcat cgccccaaaa gccaggcaac
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33121 ggggactgca agtgcccgat gagtgaatga atgaacacat gtgtgaatgg aattcaaggc
33181 actgcaggct attctggagg gtactggcct gtctcttcga caggtgaggt gcagtagaac
33241 agcatcccgat atagatgcca gtttctgacc tggttctgaa aagccagtca cctacctctg
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33361 tctgcagagg gaggcattggc tagtgtgcgc aaggtgacct ctctcctggg ctgcaggatg
33421 gagaacctgt tcatcaaccg cttcatgcac atgttccagt cttcttggaa tgacttcgcc
33481 gactttgaga aaatctttgt caagatcagc aacactatct ctgggtgagt tgacctctggg
33541 ggcccaagtg gtgctgggga caggggatgc tgcctcctg tctgatactt gccgggaaat
33601 tgacaagggc cttctgcct gctgcagcat gggggcctcg ctgccacct gccaccctgg
33661 acagcaccac ctacactcca caccttttac catcactgtg gtcaccttg tgcccagagg
33721 tttctcctcc tcagatattc aagctcgagc accctcaacc tcatttcaact atcaaaagtc
33781 tcaaaagtat cagaactttt tcttggcaca aatcaatcat ttgtgcttct gaacagagca
33841 aaggcagaac ttggcttgtg ttttaggtat ttacacaaaa gcaacttttg gttccttttg
33901 actaggatgt gtttgatgag agcactagct tcatagtggc cagtcatggc atgggaagga
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34681 cagactgtct tgtgcaacat cagaggagga attgcgggga atgtttctcc atgatgtctg
34741 agtctgggaa cataatgtca atattttcac tatcagtatc aataattaca ggagctaccc
34801 ttgattaggg gcctgtggtg ggacaggcat tgtgacaggt gctttacaca caaggctatc
34861 agttgtcacc caccttgcaa aggggagaac actggagaaa gaagcagacc ttgtgtgaca
34921 atacacaagg ggcacgagga gaacccaaca gaatggttga ttttctcgtt agaaatgctg
34981 ctgcccattg tcctgtcga cctcctcacc caccctcacc tgcagactca gctgcctcctg
35041 gctgcaaggc tgacctagtc ttgagacaga agaagttcaa accaactcca cctggatctg
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35281 gcccttttaga gataaaccta cagccccagt acctggccca cctgaatcta gagggccacc
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36181 ttttttctct agggagggtt ccttatgtgg aggtaaaaaa tgatcaccgg cagcttcaga
36241 tttaccttcc accagcttag caaacaccac ccactcccag caagaaagac cctgtttccc

FIGURE 4 (cont.'d)

36301 aatgctccca gcagatgtct taggccatcc tcgggectca ctgattctgt gagccagtgc
36361 ccacggccag gagaatggaa tacactgacc tagaggggac agggactcta gacaggcaaa
36421 aactccactg tcagaagcag aatcctaaaa tgtcagaact gaaaggtagg cccgcccctc
36481 gttttccaga aatatgaaag ggaggcttgg gataacagag aaatgctgca ggcattggcc
36541 ccaaattctca ggcctcctat tcccagtatc accttcacca gcctgggtgg tctcaagatt
36601 ggattagcag ccattccttc tgggtagagt ctgatggtca cttcagctct caaagtccag
36661 ctatccagcc atagtccctag aaggcaagac atcactgtgc ccgaccaacc caagggtctc
36721 cacctgcccc cctcaacaca aggtgcctcg agtgccctcg cggggatagt ccccgctccc
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36841 cataaaggag gagggcgggt gccaggctcc gagctcctgc cgtcctgggt ggggtggcttc
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36961 cagggggggcg ctctgggatg tctccaggca gagtagatac tgaccctcc gcagccggga
37021 ccctcaccct ttccttcctc actcaggaaa cagaaaaggc ttcagaagga gcggccatgc
37081 ccccggccta agcgtctgct tcccggccca gcaggcctac cctgcacctg gcgttccctag
37141 gggccctct gcgggaccca ctgcgcggct cgcagcggcc gccgcctcc cacttcaccg
37201 gcacgtcgtg tgcgtgtcga ggtgtgttga ctctacagc aaagggcagc gatccgagg
37261 tcagcaagcc cgacgaattt acaccaatga cccgccgtgt cggcagctc agaccagggc
37321 acaacacgcc aacctgcag accaccccca cctcccagc cactgcagac cctccccct
37381 ctgcttctgc agcacctgtc ccgaaacacg ctcatctccg ccccgcgaga ccttccctac
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37741 nnnnnnnnnn nngagcgtac ttcagcccgg gtgaagattc cttacacctt atacaaaaat
37801 taattcaagt tggattaaag acttacatgt cagacctaaa accataaaat ccttagaaga
37861 aaacttaggc aataccattc aggacatagg catgggcaag gacttcatgt ctgaaacacc
37921 aaaagcaatg ggaacaaaag ccaaaataga caaatgggat ctaattaaac taaagagctt
37981 ctgcacagca aaagaaacta ccatcagagt gaacaggcaa cccacagaat gggagaaaat
38041 ttttgcacct actcatctga caaagggcta atatccagaa tctacaatga actcaaacaa
38101 atttacaagc aaaaaacaaa caaccccatc aaaaagtagg caaaggatat gaacagacac
38161 ttctcaaaag aagacattta tgcagccaaa aaacacatga aaaaatgctc atcatcactg
38221 gccatcagag aaatgcaaat caaaaccaca gtgagatgcc atctcacacc agttagaatg
38281 gcgatcatta aaaagtcagg aaacaacagg tgctggagag gatgtggaga aataggaaaca
38341 cttttacact gttggtggga ctgtaacta gttcaaccat tgtggaagtc agtgtggcaa
38401 ttctcaagg atctagaact agaaatacca tttgaccag caatcccatt actgggtata
38461 tacccaaagg actataaatc atgctgctat aaagacacat gcacacgtag gtttattgtg
38521 gcactattcc caagagcaaa gacttggaa caacccaaat ttccaacaat gatagactgg
38581 attagaaaaa tgtggcacat atacaccatg gaatactatg cagccataaa aaatgatgag
38641 ttcattgtcct ttgtagggac atggatgaag ctggaaacta tcattctcag caaactattg
38701 caaggacaaa aaaccaaaca cctcatgttc tcatcctag gtgggaattg aacaatgaga
38761 acacatggac acaggaaggg gaacatcaca cactgggcac tgttgtggg tggggggctg
38821 ggggagggat agcattagga gatataccta atgctaaatg acgagttaat ggggtcgagc
38881 caccaacatg gcacatgtat acatatgtaa ctgacctgca cgttgtgcac atgtacccta
38941 aaacttaaag tataataata aaaaaaata aataaaaaa aaaaataaaa gaaaatgaag
39001 aaaatcatgt catttgcagc aacatggatt tggctagagg actttatcct aggcaaacaa
39061 atacagaaac agaaaatcaa ataccacata ttctcactca taagggggag gtaaacactg
39121 ggtactgatg gacataaaga tagcaacaat agacactggg gactattggg gtgggtgaagg
39181 agggaaggga gaaagtgttg aaaaactggt gagtactatt ctcagtatct gggtaatggg
39241 accattcata ccccaaacct caacatcaca caatatacc aggttacaaa cttgcacaag
39301 tgccctctga atctaaaata aaagttgaaa aagcaaaaat aaaacagtaa acaacaacaa
39361 caacaaaaca gcaaaaccct caataaatac ataaataaaa atataaataa atgtctttgc
39421 cacagctttt tgtttttgt gtggctttga gttagtatct ggggtcacgt tgcttttaag
39481 ctgtttgcta tcaactgcat cctatctaata atttcttttt cttaatagta aaccactcaa
39541 tttttgtgag gagatattac attgtgggtt tgatttacat ttctctaata atttccttc

FIGURE 4 (cont.'d)

39601	cagtttggat	gctgagcatt	ttttcttatg	ttttttgcc	attcatatat	aattttaaaa
39661	gaaatgtcta	ttcaaatcct	tttgccattt	taaaatcata	ttatttttaa	atattgtgtt
39721	gtagaaatta	tttatatatt	ctggatatta	actctttatc	agatatataa	tttactaata
39781	ttttcttcca	tccacaagtt	ttttttaaca	ttgttatgtc	ctttaatgca	taaaagtttt
39841	aaaaagtttg	atgtagtccc	aattgtctat	tttttctttt	gttgtctgta	cttttgggtg
39901	catattaaaa	aataattgcc	atatccccct	attctaagag	ttttatagtt	ttagatcttc
39961	catttaagtt	ttaaateccat	tttgagttaa	ttcttgtata	tggcataaga	caaagtttca
40021	acttcactct	ttcatgtgtg	gatatccaag	tttccaaca	ctgtttgttg	aagagaatgt
40081	tcttccctca	ttgagcggat	ctggaatgct	gtaaatatta	tttgaccata	tatgtggagt
40141	tttcttttaa	tgggttcttt	attctattcc	attggtctat	atgtctctct	ttaagccagt
40201	gtcatgctgt	tttaattact	gtagtcttgt	aacatgtttt	gagatcacgg	agcatgagac
40261	cttcaactca	gttagttttc	aagattgtct	agtcagagta	tatatgaata	tttagataaa
40321	tttttctctt	ttttcaaaaa	atgcagctta	gattttgata	gggattacat	ataatttgta
40381	gactgctttg	ggttctattg	acttttcaaa	ttaatacata	atggtgtaca	gatttgggga
40441	atacatctga	tattttggag	atcttaacat	taaatcttcc	aatccatgaa	taccaatgtc
40501	tttacattta	tttgtgactt	ctttcagtac	tgtttttag	ttttcagtg	acaagccttt
40561	tatttccctg	gctaagttta	ttcctaagta	ttttactatt	tttgatggta	ttgtaattaa
40621	attattttct	taattacctt	tggattgttt	atagttaatt	tatagaaagg	caactgattt
40681	ttgtgtgtcg	attttggatc	ctgcaacttt	ccagaatttg	tttaatagtt	ccaacagttt
40741	tctggatttt	atgcatatat	gcatctaaca	gttttctaga	ttttatgcag	gagtctagga
40801	ttttatgcat	ataggatcaa	gtcatctgtg	agcagagata	attttacttt	tttcttttat
40861	tctttggatg	tcttttcttg	cttaattttt	ttttccta	tgggtctgctt	ggaaattcaa
40921	atactatatt	gaatagaagc	gaagagacag	agtatacttg	tcttgttcc	aatccagaag
40981	aaaagtttga	atcttttacc	attgagtgtg	agtttacctg	tggatttttc	atatatggcc
41041	tttattatgt	tattttcctt	ctatttctag	tttgctgagt	gttttctgta	taaaaggtgt
41101	taaattttgt	taaaactttt	ttctacatca	atataaatga	tcatgctggt	ttgtccttta
41161	ttctattact	atagtgtatt	acattgattt	ttgcatgttg	tattattctt	tttttttgag
41221	atgaaatctc	attctgtcat	tctggctgga	gtgcagtggc	atgacctcag	ctcactgcaa
41281	catttgcctc	ctgggttcaa	gggattctcc	tgtctcagcc	tcccaaagtg	ctgggattac
41341	aggcatgagc	cagcacaccc	tgccacatgt	tctatcattc	ttgcattcca	ggaataaagc
41401	caacctgatc	atcacaaata	ttgggtctgta	gttttctttt	catgtaatgt	ctttgtttga
41461	ctttgaaatc	agggttaatac	tggcctcata	taatgagctt	tgaagtgttt	tttatattca
41521	tttttgtaaa	tgactttgag	aaacatttgg	tctaattctt	ccttaaatgt	ttggtagtca
41581	tccggttctg	ggctgttgtt	tgtttggagg	tttttgaacc	agtttaactc	ccttcgtagt
41641	tataagtctg	ttcgtttttt	ctacttcttc	atgattcact	cttattaggt	tgtatatttc
41701	tagaaattta	tgcacttcta	aattatccaa	tttgttgaca	tataattaac	tgttgatggg
41761	attttcttat	aatccttttg	atttctatgg	catgggttct	aatgttctct	tttttatttc
41821	tgatttatta	gttgaatctt	ttttccttag	ttaatctagc	taagcatttg	ttaattttgt
41881	tgggtgtttc	aaaaaccacc	tcttagtttt	gttgattttt	ttctattgtt	tttatattct
41941	atatttcatt	tatctctgat	ttaatctaat	ctttaggatt	ttcctccttc	tgctagcttt
42001	gggtgtagtt	tttttctct	cctagtttcc	tgaggataaa	agttaggttg	ttgatttgca
42061	aactttcttc	tacttctttt	tttttttttc	ttaagtgtg	gagatgggg	cttgctttgt
42121	tgccagget	ggtctcaaat	tcttggtctc	cagaagttct	cctccctcag	cctgtcaag
42181	tgctgggatt	gcaggcatga	cccaccatgc	ctagccactt	tcttctttt	ataatgcaca
42241	tatttatagc	tataaaatc	tctgttagca	ctgcttctgc	tgcattctac	acattttggg
42301	acattgtatt	tttattttcc	tttatctcaa	gatattttct	aacttccctt	gtgatttctt
42361	ttttgaccca	ttgcttgttg	aaaactgtgt	tgtttaattt	tcacatattt	gtgaattttt
42421	tgttttctct	ctgctactga	tgtctagttt	tatgtcattt	tcatcaaaat	agatattttg
42481	tataatttca	atctttttaa	atttgttaca	agtttttttg	tggataaaca	tgtgatttat
42541	ctttgggaat	attccatgta	aacttgagaa	aaatactatt	ctgattttat	tgggtggaat
42601	gttctgcaca	tgtttgttag	cactatttat	agtgttgttc	aagtactgta	tttcttatc
42661	gattttctgt	cttgttgttc	tagccattat	tgttaagtgt	gaattgaagt	cgcctaccat
42721	tattatgctg	tttatgtttc	ctctctgata	tgtcaatgtt	tgcttcagat	atthagggagc
42781	tctgggtatta	gaggtatata	tatttghtaat	tgttatatct	ttctgtgtaa	ttgacttttt
42841	gttatataat	atccattttt	ttgtcttgtg	actatttttt	actttaagtc	tattttgttg

FIGURE 4 (cont.'d)

42901 gatagtagta tagtcacttc tgccttgcttt tatttaccat ttgcatggca tttacttttc
42961 ctttttttca ttttaagcat atttgtttct tagacctaaa tgacaggata aagttggatc
43021 cttttttacaa atccattttc cagtctatat cttttgattc aggagtttaa tccattttaca
43081 tttaaagtaa ttactgatag ggaaggacct acacttgcca ttttggtgtt tctgtatgt
43141 tttgtaaatt ttgtttttta ttccctctct tactgacctc ttttggtttt tgtcgatttt
43201 tttttgtggt gacattttga ttcccttctt gtttcctttt gtgtgtattc tatagatttt
43261 tttatgggta ccataagaat tataaaaaac atcttaaagt gttacaagc tattttaaac
43321 tgtaagaga ataacttcca ctgtgtacaa aaactatttc ttcaaagctc ctaccctcac
43381 cttagggttac ttatgtcaca agttacatct tcatatgtaa tgtattcatt aacacagttt
43441 tatagttatt ttttaagcttt tgtcttgtaa attctataca agaattaaaa gtgcatttat
43501 gtacaaaaac tgcatagtac agtctctata tatgtccata tatttatctt tactggagag
43561 cttttatatt tcataagact tcatgttact atttagcatc cttttgtttc aacttgcaag
43621 atactacagc aggtccagtg gtaatgaact cccagttttt tgttcacctc ggaaaggctg
43681 atttttctct tatgtttgaa ggatgggttt gctggatata atatttttgg ttgaaatttt
43741 cttttctttc agctctttga atatattatc cccctgcctt ctggcctgca aggtttctgt
43801 tgataaatcc actgataatt ttataaaggc ttctttttac atgacaagtt actttctttt
43861 gctgctttca agattgtctc tttgtctttg acttttgaga gtttgattat agtgtgtctc
43921 actgtgagtc tctgggtttt ctttaacatt tttttttgt tcatatcttc tgatgatgaa
43981 ttcttttaac ttttatattt gtgaaatgtt ttttcttcat tttcagaagg tatttttagt
44041 gagtgtaaaa ttctacattg acagtttttt tctttcagta ctgttttagt tttctctact
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44161 gtacttaatg tgccttttta ctctgcctgt ttttaagatt ttatttttat tattgatttt
44221 gatcatgtgg cttgggtgtga gtttcttcat atttattgtg cttgggggtt attgagctta
44281 ttaagtctgt aggttttata ttttcattac atttagaaaa attgtagcca ttattcattc
44341 aaattttttt ctgttcttct cccatttctc atgcccttat ggggtctaata tatatgtata
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44461 ctatttccatt tgggcagggt tattatactt ttccctaatt tgctaatttt tttgcaatgt
44521 ctaatccact gttaatctca tccaatgtat tattaatttc agacattgta gttttcatct
44581 ctagaaattg ttcatctttt tatactctct ttgtctctat ttgatatgct aagtcttttc
44641 tctagcttct tgagcatatg aaatatagtt atgacaacta ttttatttta ttacaacttt
44701 taccttaggt tcagaggtag atgtgcagggt ttgttatgta ggtaaaactcg tgtcacagga
44761 gtttgttttt tatttcatca ctcaggtagt aagcctagta cccaatagtt gtttttctgt
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45061 aacaatgttt accagtttgc tctaagcctt tcttagctct tttgcttgtt tctcaagaac
45121 aagcacagag ggtggagctc aaccaagact gaagttaaag atgtagaaag attgagatgg
45181 gaagtaatta agttgaggag ctctgataca atgggtatttc tctttttaat catgtaagat
45241 gcaagcccaa gataatatgt tgggaaagtt gaaggcgaat gtcttgagaa atatgaaatg
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45481 cttggccagc aagtcactc gcagcacaga tctactctc tttcagtcag tcatccaca
45541 actctacaaa gcatttttct ccatcaaagt ggaacttttg gggttctgca taatttttca
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45841 ttcttaagtt ccttatctct agttctcttg catatttgtg gcaattatta gtttttttcc
45901 aaaaatccat tctccctttt tctgtacat gtatctttcc agcttgacca catttccag
45961 cttccctggc agctaggtga agcaatgtaa ctaaaacttt gcctgtaaaa tatgagcaga
46021 agttatgtgc acaatatctg cctcacttgc ttaaaataaa ttgtattatt tgagctttct
46081 atattgtccc tttttacaac taaaatgtag aggttatggc aacttttatg gtaaagagaa
46141 tcatcacgta ggagatcaag aatcattgat ttgagaggaa ctaaatcct ttaatgactt

FIGURE 4 (cont.'d)

46201	agtggagcaa	gactgcccc	tcagtctgga	agctacccca	caacttatgt	atatcttcag
46261	attgttgagc	aaaagagaaa	aaatgaagcc	actatatatt	taggtctctt	catgttaaca
46321	gttttagctt	taacctaac	cacatttatt	cctgaatgg	agcatattat	taacatcaca
46381	ggaagggaat	tccttggtca	tggatctttt	atthttgtga	aataaaggta	atctgcttgg
46441	gcttaatact	gccaaaggcag	aatttttttg	aataattatt	tctatagatg	accattcat
46501	aatgacaact	aacatgggtt	ctaaaatgga	ttcatgtacg	tcatcttatt	tagtccccgc
46561	aaaaattctg	aaggtaggta	taattattcc	cattctatat	attgaaaaat	tggtattcag
46621	agagactacg	gacttatata	agtttctgca	gctattttaag	aaacagagta	aagtctcaaa
46681	gccattaatg	aactgttttag	tttagtgctg	cttagtaaaa	ttagaactgt	ttgaagtgcg
46741	ttttaatagt	aaacccatcg	atattttagtc	agctctctgc	ttgctaacta	atatggaaga
46801	aaaaacatac	atctacgtac	atcctgaatt	gggagaagg	aaataaaata	ttgccaatcc
46861	cctttcctgt	attaggtact	gtgataaggc	gataaggctt	ttcattatta	taaatgagtc
46921	ctggagaggt	taagcgcagt	cacccaaagt	cacatgacca	gtaactttca	gagattttac
46981	cccagggtctg	gaaagactct	gaagcccatg	ttattgcctc	cagagcctgg	tggtagaacc
47041	ctgaatggga	cagagactca	gcagacagag	tggtcctttc	cttcagggga	gtcagggaag
47101	gtttggtagg	ggagatagag	ttagatctgg	gtgggatttg	gatgaaatga	gatcaagcag
47161	ggataaataa	gatccaagct	gtttatgagg	gacagggaga	ggcagctct	gttagaaga
47221	gtgggtttata	cagagaagca	tggaaacatt	tgctccatgc	ctgccttcc	atggatagca
47281	gtccagaaat	gctacttgcc	tgctgcacag	tctttctcca	gtccccaggt	gtggacacgt
47341	tctgagcacc	tgagcctggg	tctgcctga	cccagattct	gtgagctggg	acagagaatg
47401	tgtcctgctg	tccctcctcc	cccacttggg	cccacaccct	tttctacaca	tttggattag
47461	aaatctgaat	tggtcctttct	gtgaacccca	atgacaggca	agtccccagt	aaagaagcac
47521	ttaatttaat	tgctccttca	gggtccactt	agagtaatag	ttgtgaacag	ctctccctag
47581	tgtctcccac	aggcagtgac	aaatgttgct	aaagataagt	cacaaattct	tggtcaaggcc
47641	atcttaataa	tggtgaaggaa	accttggtca	gtcctgaaca	gtcctgttca	gactgatctt
47701	atcacagggt	gcacactgcc	tcaatgtcac	catgtttcta	ccctcagttg	tgcttggcag
47761	agagaggaca	gctatacata	aagtctgttc	actctacaaa	ggtgaaatca	ttttttttaa
47821	ggtaattatg	attgtttctga	ggatgggtgat	tgagtgcacat	ttaaaaaatg	ggaaaagtcc
47881	tactcataac	tctgtctgct	taatttgctt	atataaaaga	cttaatgggt	tttgttgagt
47941	tgatccagag	tcagtaacat	ttgaatatgt	gttattacca	tttgatcagt	aacaaaacaa
48001	cagggttaagt	gggatgcca	atgtggctga	gagtttaggg	ttacattcc	acacccagc
48061	cttaaaatac	tttgtataaa	ttattgggtg	atthttcttt	ttcatggctt	ttctttgaca
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48301	aaaatgtctt	tcagatttga	ccctgaacat	atgcgattct	ggcatgttct	gatttttagt
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48421	attagattaa	tatgggtgtct	gtgaaaatca	ttgaacagct	ttagagataa	aaataatgaa
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48721	agaagcttga	gtgccaagg	gtttgataaa	tgtggaaaat	aaccgctgtt	cgaatatcct
48781	gttggtcctg	tggtgagatg	tcacgtgtgt	gtctgaatgc	agtatgtgtt	taaacttgcc
48841	atttattacc	tgaattgtg	ttattttgcc	tcataccctt	agtaatactc	ttgtaatgct
48901	ggctgagaat	tgaagcaaat	gccctatgaa	actcaaggga	gcaaggctct	tggtattttt
48961	cagaagaaat	gactggctga	ggctgtaaag	aaatcttgtg	gtcattctca	tggtaaagg
49021	attggagccc	cgattctttg	atctcattat	tgaccagttg	attgagaaga	ctgtcctcct
49081	gtccccaccc	aatcacata	agtgggtaat	tacctgagg	ctaatttgct	ccttgatgtg
49141	gaatacattt	gtggaaattt	ccttggtgtc	agcacctgtt	caaaacatcc	atthttgattg
49201	cagagctatt	gtttttctaa	tctcattgtg	gagctaagag	agagattgtg	tttaagggtt
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49321	ttggtaggtg	ttcagtgatg	gatgcgtttt	ccatctccca	ggtacagctg	cagctgtgct
49381	gactctgggtg	cgtttgtaat	atgcactgtg	gagtgaccca	tgatttcatg	atggctggag
49441	aaatctgggtg	gctagaattc	tagggaggag	gacatgagtc	ggaagtgcag	aaacctcaca

FIGURE 4 (cont.'d)

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49501 ctgggacatt gatggagaaa atccaattct gtccctggag ttaaagagga gtcactcact
49561 gggccatcat aagagcaaat aaagttagag ttatttcttc agatccacaa ctcaaactca
49621 gcgaaagtaa ttattcactc tttttgtccc aaacaataat gaaatcagct aaagcatatt
49681 gtattttatta cttccactca agttattgag ctgttctgac accttgttgc tgggaagata
49741 cacagatgga acaccatcat ttccattgat tctgatcata cccacgcta atatagcctt
49801 attgctctga gtcataggga ttttatgctt gcctattcaa aaaacagttt ttaccttatt
49861 aaaaggatgat atgacctgag ctggagatga tgtttggtca ttttgtgtaa accttttaat
49921 atttttagtgg taaatacatt tcttgaatct tgacaaaaac ataattaaaa tgaacatatt
49981 taaaatggac atcttccaaa tgttcatttt taaaacaaac atcttccaaa tgttcatttt
50041 taaaatgaat atcttcgtta actttttttt ttttttttga gacggagtct cgctctgtca
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50221 cggctaattt ttgtattttt agtagagacg gggtttcacc gtgttagcca ggaaggctctc
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50521 atttgagtgt ctacacactg cctgctaggc agggggctgg gtgccaagaa gggatgtcca
50581 gagataaacg ggcataatgt ttaatctttt agggcacagt ccagtaacct gatcaaggag
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50941 tcttttggca atgggaagcc atggaagaac tgttgaagg aggattctgt gtgatacatc
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51061 aaagtgaaaa caatcactgt tcaagctctg gtctagcact caccagtgtt ttctctacag
51121 gtgcatatac aaacatgctt ttacatttta tttttatttt aaatttttca ctatcctcaa
51181 tatcagtgga aacaaatctg cttttttaat ttttttttta aaaatgagat cctattgtac
51241 acattatttt aaattttttt tcattctttc ctttttttaa aattaaaaca atttttttgg
51301 agacagtctc actctgtcgc ccaggctaga gtgcagcatc gtggtctcag ctcaccgaaa
51361 ccttgccctc caggttcaag cgattctcct gcctcagcct tccaagtagc tgggattaca
51421 gacatccacc accaccgtgt caggttaatt tttgtatttt tagtagagaa tggggtttca
51481 ccatttttga caggtggctc tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
51541 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
51601 nnagcgtatt cgcccgtggt gaagatcgta gtagagtcta ccacctcggc cgtgaacctg
51661 gctcaggggg cgcagccggg gtggcgacc cagccaggtc tgcggagcgg tgcggcgagg
51721 caacccctc acggacgctg ggactcccc accccgtccc cattcagcgc tagcgggtgga
51781 ggggccaggc ccgcccagg tagtcaggca ggggtcccgg ctccctcccc aggaccaccg
51841 ccccgcgggc gctcacgtcc tgatggcttc ccacaccagg agcccgctct cccggtagaa
51901 gtagtagggg atgtcttctt tgctctccat gcccgggcc ttgatggcct cgggaaagca
51961 cagggaggca taggtcaggt ccttcattgg cctctgcacc atctgcacgt gccaccgcc
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52081 gctgtccaga cccatccctg aggaatgtg ccaggggagg cgaggaggcc aggcaggcag
52141 aggtgcaagc ccttgctctg tgagatgggg gagggatgtt taacgcagag aatgacaagg
52201 gcagccgggt ggagaggtgc taggaggagg cctcccgccc aatccaatgc aagggactga
52261 accgtggggc tgcagagtag aagaggggag ggtgcgctcc cagccacagg agggcagcag
52321 gcgtgggcag gtgtgtgggg gacccagca ccagcgggcc tgggtgtgta agtctgctct
52381 agtgcagc acacgacct cagtcattgc tctcagtgc cctcagttt caggacctat
52441 gcaactctgt tgaggccctg ttgtgtgctc aggtgagggc tggagagacc cacaaggagg
52501 gatcctggtc ctgatcccg tcccggcttc tgagtgtatg agacacactc acaagctcac
52561 tggcacatat gtgtgtccac gtgcacacac acacatgcaa atacaccag ggggtgggc
52621 tgtcggtgcc acagaggttt tgaagaagga cttgggtgct ggggtgccag agattggtcc
52681 acgggtgggc ttcagcccaa gcaggaccaa ccagagctgc cccacagcac tttctgttta
52741 gatgcggctg ggagataatg gccacatgag aacctgaggt ggagctacta tgatgagctc

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FIGURE 4 (cont.'d)

52801	ctgtgccctc	tcccatgggg	gcctgtctgc	agcaggagag	tgtgatgcc	acacagggtga
52861	aagagacaga	aagagggagc	cagtgtgcat	gcacctggg	gcattgcttg	agtcacctgga
52921	tccatttctg	gctgaggccc	ccgacctct	atttgttcca	ggtatttgag	ataaggcatg
52981	tcttgtccag	ctgcagctgg	tttgagttgg	gttttgtcat	ttgcagccca	aacagtgtct
53041	caacttcagt	ggtcatctgg	cctggtcact	aatgggctgg	ggaaaggagg	aaggttgggg
53101	caagggccca	tgtgagagtc	caagcttgg	aaggctacag	agggctcaaa	acgaggtggg
53161	gtgtacctg	agggatgcga	gggctgggca	gggcctggag	tccccgatgc	aggagacagt
53221	gggttgggag	ggttgggacc	cgggaagcag	agtgtctggg	aggtccaggt	cagggtggca
53281	gggtgtggc	agattaagag	gcagacacag	gttcttgggt	cgtaggaggt	cagggggcca
53341	taaggagtgt	gttccagagg	gggtgtaca	cccaggctcc	agaggctggg	agaggggagg
53401	ggtgggagga	ggggaccagg	agccatcagt	gagaagggaag	acctgggtgt	gcgcctggag
53461	gagtgtcct	ggctgaatgg	cacgggctgg	agacatcagg	aggatgctgg	agccagtgt
53521	ctgagcagac	tccagccttc	acccttccag	gcctcttgaa	aggggtgcta	gatctcagat
53581	agggagtga	ggcgccagg	ctgggtctt	ccaggcaaca	agtagggtag	gagggcaccc
53641	accttgtcaa	agaggccaca	ctgcagatg	agctgtcac	gggccttgg	gttgattgca
53701	atggtgaatc	tcacgtgtgc	caccagcagc	tggggagggg	agaggaggag	gcctcagagg
53761	gggcccagtc	aggtgacctg	gtgcctcagg	gacccgcagc	tccccaccc	agggctgccc
53821	tataggatga	tgctgggcgc	agggagggaag	tgaaggctgg	gtgctgatct	ttctgtgaa
53881	taagtgtctg	aggcctgcac	ccctctgatg	cttactaagc	atgataatga	ttcagaggg
53941	cctggccagc	acttgtacaa	tgtttacctc	tttgtctcct	gagttcactg	tcttaatctg
54001	accatcattc	tgttaaggcag	ctgtactatt	tgacctgttt	tactggtgag	gaaactgagg
54061	cacatgggta	cttttagcat	gcagtacccc	cagcagccaa	tgcttgtagg	attcgagaac
54121	agggacggag	agtgatggca	ggggcgccca	tcagcatcag	ccgaggatca	ccatgaactc
54181	atttgccctt	tccaactcta	ctggctggcc	agcgaggccc	gtgtgtcagg	cccatgcccc
54241	agccgcgtgt	cctggggaac	agcaggctcc	tagctgtttt	cttcccttag	gggcattact
54301	gactctgaga	acatctctcc	agggctccct	ttctgccacc	cactcccagc	cacaggctcc
54361	cctgtgggat	gtcagtgtat	cctccactc	cacatctcag	atgccctccc	atagcagggtg
54421	gggcggtagc	tggctgtacc	ttgaaaatgg	ggtgcacagc	aggcagctgg	cggtagattg
54481	caatgccaaa	aacctcagac	accagatgtg	ttcgcagaag	gtgggtgatg	gtctggtgga
54541	cgtggaagtc	actggaacgc	acccagattt	tggccaaaag	ccagtcgtat	tttgcattcc
54601	aaggaggagaa	aatagggttc	tcactctccc	ggatttggtt	gagctgatac	attgggggaa
54661	aggaaacaca	ctgctatatt	tcacttcaga	gtatagtgtt	tggagaactt	cgccctttgg
54721	gaagtccaga	aagtatctga	atttctttaa	cagtgaactt	ggaatcagaa	cactctggag
54781	ggggtaaagg	gccctgcggt	ggtatttcc	gtcccagcca	tattacttac	aacctgcagt
54841	actctggatg	acacactggg	ctttctaagc	tccggcttca	gcactgttca	tgtggggaca
54901	gtgatcgctc	ggctcacagt	tactcaggag	ctggcagcat	ggaaggagcg	ggcaggccga
54961	aggccagca	gcggaggggg	aggatcgctg	tccccctctt	ccctccttgc	cctgtccct
55021	cttctactgc	ctctccttgg	tctctcatac	tttctctcct	ctcctcttcc	ctgaaatgct
55081	ggagctcccc	agggctctgc	atggtgtctc	tgtcttcttt	tcttgcccta	agtcagctcc
55141	tcctgtttaa	aggttgggg	ccctcctggt	actgagcctc	ccagatcagg	gtctgcagct
55201	tgagctctgc	ctggagccca	cacctgtggc	caggcacctc	ctgtagcaga	ggctggacct
55261	gtcttccctt	tccagtttcc	actccacact	gggacaagg	gagttttttt	cttttccaaa
55321	atgcaaata	tgtcatgtta	actgcctcct	caatcacctc	ttaatgccag	aaaataaaat
55381	ccccaaagtc	tgtggtgacc	tggttgtgta	tgcctctgta	cacacagcct	cactttcgtg
55441	ccccacaccc	agcaccacgc	cccaggtccc	tccatgccag	cagccctgca	cgttgccccc
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55561	aggtgctggc	attgcccatt	tttcatgaa	gacatgggg	attggagggg	ttgacagaaa
55621	gaatgaggtg	ggtggcagg	ctgcagcaa	gagcgccag	gaaggggcat	ggccagactt
55681	taggtgctgg	gaaagaccag	tgtcactgca	gcacagtgg	catggctggg	gagggagaac
55741	tgtcccagag	cacacagctg	tgtcacttgc	tataagtatt	gtggaagggtg	gggtccttgg
55801	gcgtctctcc	ctcgaaaaca	gtgctgtcca	atagacatat	aatgctaccc	cacacatgga
55861	attgtatata	ttcaggaagc	catattaata	aaaataaaaag	gaaacaggtg	aaatgccggt
55921	gaataatata	attttatatt	acccaatata	tccagaatat	tatcacttca	acatgaaacc
55981	aatctaaaa	tattaaatga	gatatttcac	attccccacc	tccttattct	aagtcttaaa
56041	aatcagggtg	gaactttgca	cttgccagcag	gttttgggtt	ggacgagcca	aatcccaagt

FIGURE 4 (cont.'d)

56101	gctccagagc	cctgggtggcc	agtgggtcca	ccctgggtcag	agagacccca	gaagcctcag
56161	cactccctga	ggaccaagga	ggggggaggg	aggagggaga	gcagagtgtg	acttgcacat
56221	taggcgtgcc	tgtctgttta	tacttgagat	tagttggctg	cttttaaata	ccagacagtt
56281	tcacataaaa	atltgaatga	cctgggttttc	ttgaaaaatt	agaaggtctc	agaactctgc
56341	accaggttc	tcacagaact	acgctcttgt	cccttttaca	gagtcaccagc	tctcagggtc
56401	cccactgcc	caccggtttg	catgagatgc	ctggggccact	gatacctgat	ctgtgcccta
56461	gaatgctggg	ctgcctggca	tgctctgaga	cactttctga	catgtcccca	catgctctga
56521	catgttcctg	atggctctgg	gacactgaca	tgttcctgat	ggctctggga	cactgacatg
56581	ttcctgacat	cctctggggc	cgaggagccc	ccctgttgtg	tgctaggggc	tttaccatg
56641	ctatctcact	taatcctcac	tttgaccctg	caaggcagat	attccttgct	gtaccattt
56701	tacatggggg	gaaactgagg	ctccagctgg	tttagcagct	ctcccaagtc	acacagtagg
56761	taaagagctc	agccggcaac	atgatattga	acaggcaaaa	attggaagca	atccccctaa
56821	aaactggaac	aagacaagga	tgtccactct	caccctcct	attcaataga	gtactggaag
56881	tcctagtcag	agcaattagg	caagagaaaag	aaataaaagg	gatccaaatg	aaaaaaaaaa
56941	aaagaggaag	tcaaattatc	tttgttcac	catgatatga	ttctatacct	agaaaaacct
57001	gaagattcct	ccaaaagact	cctagacttg	ataaacaact	tcagtaaaagt	ctcaatgtta
57061	taagtaaaat	gcttgttttg	aaacagaatg	cttgttcctc	ggtactgcaa	ggaaaaatca
57121	gcattttagac	aaaaagtttt	tttagcaagc	caattttact	ttctgcagaa	aggggtgctcc
57181	tcgcagatgg	aacaatggcg	agagcacacc	tgaataatgg	agagaagcaa	tttttattcc
57241	ttacgcagct	tgteccctgct	accgtgtcct	gtctccattg	gctggagcca	aacctcacag
57301	tctaaactaa	aaccgcactg	gctaataact	taaaactttt	ctaaataggt	aaaagcagtg
57361	gaaagacaaa	ggaaaagagg	aagttgctta	tgaaaggact	tagaaaagta	ataacatttc
57421	caataaagga	aggggcatgg	gctgcaagct	gggacatgcc	tgtgagcacg	tccagcacaa
57481	atatcttggg	taaagtacaa	ggacatagaa	tgtactcatt	cccttatatc	taacagctac
57541	atatgatagg	gcttaacaaa	aagttattag	cacaaagcga	aaaggcttaa	aaaaagttag
57601	tccttagaaa	aaactattat	ttctaacaca	taattttact	cttaacaaaa	aaaaaacttt
57661	tgactttcta	cactcaagat	acaaaatcag	tgtacaaaaa	tcagtagcat	ttctttttat
57721	ttgagacgga	gtctcactat	caccagggct	ggagtgcagt	ggtgtgatcg	cagctcactg
57781	caacctccgc	ctcccaggtt	caagcaattc	tcctgcctca	gcctcccaag	tagctgggat
57841	tacaggcagg	tgttaccaca	cctggctaata	ttttgtattt	ttaatgtaga	cgggggtttca
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57961	ccaaagtgtc	gggattacag	gcgtgagcca	ctgtgcctgg	cctaaaaatc	agtagctatt
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58081	gttacaaatg	ttccccatac	acaaaataaa	ataccaaaga	atgtatccag	ccaaggagggt
58141	gaaagagctc	tacagagaga	actataaaac	actgatgaaa	gaaatcatag	atgacacaaa
58201	aaaaatggaaa	aacatcccag	ctaattgggtt	ggaagaaagc	aatctacaga	tacaacacaa
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58321	tatggaacca	aaaaatagcc	gaatagccaa	agcaatccta	ggcaaaaaata	caaagctgga
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58441	tatactggta	caaaaatagg	cacagagatc	aatggaacag	aacagagaac	ccagaaataa
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58561	aggacatcct	attcaataaa	tagtgttggg	aaaactggct	acctatatgc	agaagaatga
58621	cgctggggcc	ctacctctca	ccatatacaa	aaattacctc	tagatggatt	acagacttaa
58681	atgtaagact	tcaaacttta	aacattctag	aagaaaacct	aggaaaaaat	cttatggaca
58741	tttcttaggc	aaagaattta	tgactagacc	tcaaaggcat	atgcaacaaa	aacaaaaatt
58801	gacaaatgag	acttaatcaa	attaaagagc	ttctgcacag	caaaacaaac	tatcaacaaa
58861	gtaaacagac	aacctacaga	atgagagaaa	atatttgcaa	ctatgcatcc	acaaacgact
58921	aatacccgaa	atctatgagg	aacttaagaa	aaaacaccac	cattaaaaag	tgggcaagg
58981	acaggaacag	acacttctca	aaagaagaca	tacaagtggc	caacaaacat	atgaaaaaat
59041	gcccaacatc	actaatcatc	agagaaatgc	aaattaaaaac	cacaaaggga	taccagtcag
59101	aatgggtatt	attaaaaagt	aaaaaaatga	cagatgttgg	caggatgcag	acaaaaggga
59161	atgcttacac	actgttgggtg	gcagtgtaaa	ttacttccat	ccctgtggaa	agcagtttgg
59221	agattttgca	aagaactgca	aatagaatta	ccagttgacc	caacaacccc	attactgtgt
59281	acctacccaa	agggaaaagaa	attgttttac	caaaaaggaca	taggcacaca	tatgtttatt
59341	gcagactgtg	tcacaatatc	aaaatcatgt	aatcaacctc	ggtgcccac	aatagtggca

FIGURE 4 (cont.'d)

59401	ccagataaag	aaaatgtgat	acatgtactc	caaggaatac	tacatagcca	taaaaaagaa
59461	tgaaatcgtg	ttctttgcag	caacatggat	gcagcttagg	attggcactt	aagccataat
59521	cttaagtga	ttaaccacaga	aacagaaaaat	cgaatactgc	atgttcttat	ttataagtgg
59581	gagctaagca	ttgtgtacac	atgggcataa	aagtgggaac	aaaagacact	ggggactcca
59641	ggaaggggag	ggagggagga	aaggggtgaa	aaactgggta	ttgggtacta	tgctcagtat
59701	ttgagtgatg	ggttcaatag	aagcctaacc	ccagcattat	gcaatataac	catgtaacaa
59761	acctgcacat	gtacctgaat	ctaaaatttt	atatattaaa	aaaaaaaaaa	ctgttctgac
59821	cagtaaaaaa	agagctgaat	gaggatgggc	ccagtgtctc	gcctatttca	gcccactact
59881	ctcccttctg	cttctcttca	cctcccgccc	tgaccgggcc	tcacctgccc	atctccttga
59941	gctcttgtac	cactgagctg	ggccttcccc	aaccatcctc	tcacatcctc	ccactcctgt
60001	ccaggatttt	ggcctgccat	gggatgccag	aacttgccct	gagcaatttg	tgtttcttaa
60061	atttgttttt	tgggtaagga	agtagctttg	cgtttctgat	tagaaaagaa	tatgtgctta
60121	tcgtaaaaaa	aaatctgagt	catgacagga	gagcctgaga	aagaaaacat	catctcatct
60181	tccagcgccc	agggataacc	accaaattct	ggggagcctc	ctttcatagg	tctttgcatg
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60361	gcgtccttgt	gtccccatgc	tggcacagta	ggcctgtctg	atccttgcat	tcattttaca
60421	taagtggagc	catgcccatt	gccttagcag	tttgaaggag	ctatttgtat	acgacagata
60481	tgtatccttt	atcgggtccc	tgtgtcttgt	ttttccactg	ttaactcatt	gtggagaccc
60541	ctccaggtca	gctggaagg	aaccaaagca	ttcctttcaa	agacgcctca	acattttatg
60601	gtgaggacat	ggaagggctc	actcactcaa	tcctcttctg	ccttcagact	gttttcaatt
60661	tttttcccca	tcacaaacta	tgctcctggt	gctaccaca	cacatttggtg	ctttcatttc
60721	tgctgagtg	ctgctagcga	aggtgagcc	ttgggggttt	gggtatgttt	tcgagtagac
60781	agtgcctgcc	ctactgttcc	tcagacagtt	tcactctcct	ggtgcacacc	tgttcagtgc
60841	tactggctgt	cagaacactt	aaacaataaa	gtcccctcca	gtgctcctcc	aattgagacg
60901	gggcaggggc	ctcctcttag	ggcactgtag	ccccccagcc	ccgcaacagg	gcattggaaat
60961	gaaggaaaaa	cccgagttcc	ttgaagggaa	gttccaggca	cctagctagc	cctgagaaat
61021	aaatgagcaa	cttgacaaac	aagagggtaa	cagcagccta	aaacaacagc	caaggaagcc
61081	agagtccctg	gctgttttgt	tcctcttgga	aactaaagag	aaccctgaa	catgtgtctc
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61201	gataagacgg	aactgaggac	tgaactctga	gcaggctctt	tgttctaaat	ttcttctctg
61261	ggggcctggg	ggaagtccc	cccacagcc	acagctaaca	ttcctttctg	gtaacccaaa
61321	tttttaaatg	aaacttctct	tccttaacca	atttcaaaac	aacaaatttt	tgatcttacc
61381	tatgacctgg	aagcccaccc	ccacttcaag	atatcccgcc	cttttagggc	aaaaccaatg
61441	tgtaccctcc	atgtattgat	taatgatttt	gcctgttaac	ttctgcaatt	cctgaaattc
61501	actctgcctt	taaaaaccct	tacctgcaag	ccatcaggga	gttccgggtc	taagagttag
61561	ctgcccaatt	ctcctttttt	ggcccccgca	ataaatgcct	tggttctctg	tagattatat
61621	cccaatctca	gtgtttggtt	ttgctgcact	gggcaagcag	atcccagtc	agctcggtaa
61681	cacaactgtc	ctcgccacga	cagcctcaac	cccaggaccc	tctgaccgcc	cactgcaaca
61741	tgcacctgg	acagcaggcg	ctgtgggatc	tgctccgggtg	ctggccgaag	ctctgacctt
61801	gctccgggtg	tggccgaagc	tctgaccttg	ggctgcccag	gcccaccagt	tatcccgtag
61861	acactgccag	gctgcaacaa	ctcatgagca	gagcatgggg	ctccgtcctt	gctgggtgtc
61921	gggagttacc	cctttgtttt	tccaaccagg	catgtcagaa	atgatatctc	attgttaact
61981	ttcatttgca	tttctctaac	tacaggtgaa	gttaggagtt	tttccatatg	ctgggtgccc
62041	atttacattt	cttcttttgt	gaattgccta	ttcatattct	ctgctcattt	ttccactgga
62101	gtattggtat	tttcccgctc	atgtaaagg	gctacctgtg	tatcatagat	aggcatctct
62161	tagctgtcac	ttctgttatg	gttactcacc	ctaactctctg	ttttgttttt	tggttttgtt
62221	tatggtttat	cactcaagtt	ttaaaacatt	acataatcaa	atatgcttag	ctttcccttt
62281	ataacttctt	ggtttctctt	tccttctaaa	agtcttctga	gtgtctgctg	aattagtttt
62341	tctaaattcg	tttacttttt	tcattttaat	ttttacttca	tctgaatttt	ttctttttct
62401	tctaagcaac	tcctctacat	gatgagattt	atttttgtaa	atggcatgac	agagcagtc
62461	aatttaattt	tcttctcatg	caaaggcagt	gtgatagcat	cattaaaata	atatcccttt
62521	ttcactgagt	tgaaaaacct	ccattgtgat	acactgaatt	cctctgtggg	ggagtccatt
62581	tctggatctt	actctatact	gtcccccaat	tctctctgtt	ttcaagcaca	gtgtctgctt
62641	aacagtaacc	ttacaaatcc	agcaaggaaa	gtgttccttc	tgtgttttct	tttacttttt

FIGURE 4 (cont.'d)

62701	tttttttttt	taaagatagg	gtcttactct	gttgcccagt	gtggagtgca	gtggagcgac
62761	catggctcac	tgcagcctca	aactcctgga	ctcaagccat	cctcccacct	cagcctcctg
62821	agcagttggg	attacaggca	tgcgccacca	tacctaattt	tttctattaa	tttttttttt
62881	ttttaagaca	tgaggctctca	cttgggttgc	ctgcctctct	atgtggtttt	aatttttttc
62941	aaaaaatttt	tgactatgct	agatttcttt	ttccatata	atctttcaat	tttttaattg
63001	ttttctctcc	tttttagttc	ctcttcacca	ccaccacacc	cccaccaaga	aagataaaaa
63061	attctggctg	aaattttact	tggagagtga	ttagtttttt	ataatagaat	ttggtagaac
63121	tgacattttt	acagtttctt	ccccaatatc	aaatcactgt	taagagttca	ttgtatatcc
63181	tttaaaataa	ctttatagtt	ggccgggtgc	ggtagctcac	gcctgtaatg	ccaacacttt
63241	gggaggctga	ggcaggcaaa	tcacaaggtc	aggagttcga	gaccagcctg	gccaacatgg
63301	tgaaatgccg	tctctactaa	aaatacaaaa	aattagctgg	gcgtggtggc	aggtgcctgt
63361	aatcccagct	actcgggagg	ctgaggcagg	agaattgctt	gaacctggga	ggtggaggtt
63421	gcagtgagcc	gagatcacgc	cactgcactc	tagcctgggt	gacagtgcga	aactccatct
63481	caaataaata	aataaataaa	taaataaata	aataaataaa	taactttata	gtttttcctt
63541	atatgggcat	tatattttat	tgttagtatg	gagaaaggct	attgattttt	ttgagaaata
63601	tatttatcta	aacactttgc	caaatagaat	tattaatcta	gtagctttta	aaaaaattag
63661	aatctcttgt	gttttctagg	tctaccatag	cattaccaga	aaagatcatc	ttccactgtt
63721	tttgacaata	tgtttattga	ttgttttctt	gttttatcat	gtggtatgac	ctctaaaata
63781	atggtgaata	aaaacagtga	tatcagcatt	cttattattt	taatggaaat	ggcattagag
63841	ttgcaccttt	ttgatgttag	ctatctttat	catataaagt	aaggttcctc	ctattaattt
63901	ttattagttg	tggctattaa	atgttattaa	attccctttt	agtgtgaatt	gatataatca
63961	taaactttat	ccttatgggt	ataataaatt	atggtggtag	ctctcttgat	attgaaatat
64021	ctggaataaa	ccctgcttgg	ttattacata	tagtcattta	atacactgct	gcaactcact
64081	cgctaataat	accttttagt	ttctttttaa	tctttattta	atacttggtt	tggctctcag
64141	ccttcttttg	aagcctgcct	gtatccagtt	tcagaactaa	gcttacacca	gctttatatg
64201	atcaattttg	ggctgataaa	gagccctgga	aatgtcagct	gtctagtggc	tgggtgagac
64261	tcagctgctc	gctgtgtagg	tctgtttcca	atcactatat	ggaaattggc	ctattttcta
64321	caattttctt	taattttatc	tttcttaggt	ttttatccat	ttctctaatt	tttcaaattt
64381	ttgccatatt	actctcattt	aaaaaatatg	taatcataat	tactgttctt	tttttttttt
64441	aagagacggg	gtcttgatat	gttgctcagg	ctagactgct	gtggctattc	acagggtgtga
64501	tcatagcaca	ctacagcctc	aagtgagcct	cctgcctcag	cctctcaagt	agctgggact
64561	acagtttgtt	accaccatgg	tgcttggtta	taattactct	ttttatgatt	ccttttttat
64621	tccgaattct	gcattttttt	ttctatctct	tttttttcca	tcagcctcat	gaggagggtta
64681	ttattattat	tttttggacc	tttcaaagaa	ccagatcttg	gatttactat	cctctggcct
64741	tcattttgct	gagtctttat	agtttgcaaa	gtttccattt	tcagaagaag	aaagagaccc
64801	aggaacattc	tgtggcttgc	tcaagggtcc	acagcctgct	agcaagtggc	tgaactggaa
64861	tttaagctag	gcccctgact	ccaggctgct	ccaagagatc	tctgagccaa	gcttttgaag
64921	gcaccatcag	tgggtgcctg	gatctccggg	gatctcccag	caattttgtc	ttcttttagg
64981	tcacctgtcc	ctttacctgc	tgcttcagtt	tcttaggcac	agggcttctc	tctggtaaca
65041	gacaggaagc	tcctctgagg	ctacgtgccc	ctgggagact	gtggggaggc	tggaaatctag
65101	agtcagatga	cctggcttga	atcctagctc	tgtggctggc	tgtgggcacc	tgtgtctcag
65161	ttttctttat	tgggtaaaaa	gatcaacatc	aatagagccc	actacctagg	atgggttgtg
65221	tgatgattac	acaaataaag	atagggttat	taaaacccca	gtggtcaaat	gtgcttcaga
65281	atccagaatt	tttaggattt	tagcagtggg	tatacttcat	tatgtgccat	acccctctcc
65341	acccccagtc	tagggcaaca	tactatttta	caatcgaaca	gagcagtatt	tctgcagtga
65401	tccacataca	tatcacattg	aatggaaaaa	gcctctaaat	aacctcacct	attgcttcaa
65461	agaaggtttg	tttacaacaa	atgaatttgc	tgcacagttt	tgaatatatg	agcagttttc
65521	agattttttt	gattttagaat	cgagggtta	ggattgcgga	ctgtgcaggt	taacctatag
65581	gatagccttg	gcattgtggc	ggtgcctgac	ctatccagct	gctattgtgt	ccacagctcc
65641	caagggtccag	ttcatggaca	ttatttgctg	aatgtctatc	tgccagtcct	ccacgggtgc
65701	ctctgcgcag	ttctctccct	ctcccaggga	cctatgcccc	gtccagtcct	ggccttggcc
65761	cctgctgtct	gcacaccagc	tcccagcctg	gcagcaggct	ggtgccagga	acagggggag
65821	acaaagccct	gtgcccgcct	gcctttcctc	caggggtctc	ctcttccctc	tgcctcatct
65881	ccggtggaca	taagaactca	catcatcatc	aaagggtggc	taccaggact	ggcctgggtc
65941	ctgacccccag	aacctatggt	gcccctcagt	ggtcttggtc	tccagcttag	tccacagctt

FIGURE 4 (cont.'d)

66001	cacctgcctg	gcccctggca	gcaccttgac	tggggggccct	tggtcagggt	gctgggggtg
66061	agagtgcaga	atatgatccc	agggcaggtc	ctccacagt	tgctcagact	ggccaggggc
66121	ttctcaagt	tgcttgggg	agtagaacc	tctccgccc	tatggacagc	ccacctcagg
66181	gcctgcagga	agccctagt	tctttcaaga	catagcttcc	tcagctggag	tgtgaatgga
66241	gccacccagg	agccctggat	cgcagaggac	tgagctgctc	agaaagggtg	gccccccagc
66301	agcctacctg	gatggcaatg	gggacaatct	tgttgggccag	gttcttatac	agcaagcaga
66361	tgggagcggc	caggaaactg	agtgtgcagg	ggtctgtttt	gttggcatcg	atgccatcca
66421	gcagctcaaa	gtccacgatg	aaaatgttcc	cttgctgcag	gaggcagaga	gatgtgtcca
66481	aatcaggctc	agcagacgga	ccaaaaatca	ggcctgggga	aagagtgatg	acctctgggc
66541	acccctctcc	ctttcctgcy	actcagcgga	gctcagaatg	tgtacttctc	tcctctgact
66601	ccaaggctga	ttgattcaca	tggaagggtg	tcacagggtg	tggcagttcg	gggtaagatg
66661	aaggaatggc	agcagctcat	tcggcatttg	tgggtgtctga	aacctgcttg	actggcacga
66721	aagatgagag	accgaccgga	gtgtcagttt	actaagaaga	aagaggttag	gtgaaataga
66781	tgtgacgagt	taaatgccaa	tcttcaccac	ggggctgaag	gtccgnnnnn	nnnnnnnnnn
66841	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
66901	nnnnnnnnnn	nnnnnnnnnn	nnnnnggggt	cctcaggggac	tgggcctcag	cccgcgggtg
66961	gttccaccct	aggcttcccc	aagtccgtca	agagccggga	gcagctgtcg	gagtacctga
67021	ccgtgggtgat	cttcaccgcc	tccgccacgc	acgccgcggt	caacttcggc	caggtaggca
67081	gggcggggcc	cgctgggcag	ggctcccttc	tcaaggccgc	tgctcctcc	cccgcggcg
67141	ttctgcacgc	gtactgcacc	ctcggacagc	ctcggggcct	ggcacgggac	ttgcaggatg
67201	gattctgccc	gctcagccaa	gggcgctggc	cgccgggaaa	gaggatggac	ggactgcagg
67261	gcccgcgtgga	gttggggggc	acggggaggga	cggggcccag	ggggcagctg	ggcagcaggg
67321	cttcgggggt	gcccacgctt	gctggcggtc	gtctccgcag	tacgactggg	gctcctggat
67381	ccccaatgcy	cccccaacca	tgcgagcccc	gccaccgact	gccaaggcg	tggtgaccat
67441	tgagcagatc	gtggacacgc	tgcccagccg	cggccgctcc	tgctggcatc	tggttgccat
67501	gtgggcgctg	agccagttcc	aggaaaaacga	ggtgaagctg	ggcaggcgcy	ggcacagccc
67561	caggtcaccc	caggttaaagc	ggttcctcag	cctcagggct	ttgtgactcg	ggcccccaagg
67621	ctcacttgga	gcaaagggaat	cctgacttcc	aaggctggaa	gggcccagaa	ggctgcagcc
67681	gccaccagg	cccccgccct	cagcctggac	agagctcagg	gtgtgcaggg	caggagagca
67741	cacagcccag	gctttgtctca	ctgtcaccag	agggctcgtg	gtgacgcccc	ctccccccag
67801	ctattgacaa	agttcttgca	catgtgtttt	accttggtac	tccagaggga	atgaccaaga
67861	gtttcctggg	ttccttcgg	acacgtgcac	ctcatttaac	ctaacaactg	aatccgggtg
67921	gtctcctggt	atgcaccgc	tttggggtag	ctcagtagct	catagaatgg	ccggaccagt
67981	ccaacctgct	ccagactgct	gggtgtctga	ggtgttcccg	gccaatggtg	tggtccctca
68041	ctggacatcc	ttgtttttgt	ggctttgcac	atgtgttcag	tatgaccgca	cacattccta
68101	gcagacaaat	tccttggtca	aagaatattg	atactgaatt	gccctccaca	aactaaattc
68161	aaaatcccat	tatcaatagc	ctatgtttct	tggacctttc	cagctcagaa	gctttgtgat
68221	cttaatccaa	tacagtattt	ttttaaaatg	atatctagct	ctgcccgcga	gacatctgtg
68281	tgagaatgca	aataagcaca	ggaccccac	agggcagcca	cccttcagg	ctccctggcc
68341	cgttttctgc	cttcctgggc	tgagagggcc	agtgttgcc	ccagcgcccc	tgatgggagg
68401	tgagagtgtc	gcgcaggggt	ggcccaagac	agcaggatac	catggctgca	aacaccagca
68461	gccccagct	tcactctgcat	catctcgtaa	ccacttgga	gcaggcagtt	attttccac
68521	ttatccatga	agccccagcc	ctggagcctt	ccttagagaa	gcaggttgga	ggcgacgaca
68581	cttgcccttc	cgaggccctc	ttgtcaggca	gcagagggtg	aatatgggga	ggtgaataga
68641	tgctccctcc	ttcatctccc	aaacgggtgg	tggcccttg	ggatgagaca	ggcctgtcag
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68761	gggcatgtac	ccagaagagc	attttatcga	gaagcctgtg	aaggaaagcca	tgggccgatt
68821	ccgaagaac	ctcgaggcca	ttgtcagcgt	gattgctgag	cgcaacaaga	agaagcagct
68881	gccatattac	tacttgtccc	cagaccggat	tccgaacagt	gtggccatct	gagcacactg
68941	ccagcttcac	tgtgggaagg	ccagctgccc	cagccagatg	gactccagcc	tgccctggcag
69001	gctgtctggc	caggcctctt	ggcagtcaca	tctcttctc	cgaggccagt	acctttccat
69061	ttattctttg	atcttcaggg	aactgcatag	attgatcaaa	gtgtaaacac	catagggacc
69121	cattctacac	agagcaggac	tgcacagcgt	cctgtccaca	cccagctcag	catttccaca
69181	ccaagcagca	acagcaaatc	acgaccactg	atagatgtct	attcttgttg	gagacatggg
69241	atgattattt	tctgttctat	ttgtgcttag	tccaattcct	tgcacatagt	aggtacccaa

FIGURE 4 (cont.'d)

69301	ttcaattact	attgaatgaa	ttaagaattg	gttgccataa	aaataaatca	gttcatttaa
69361	aatgggtcct	gttccatgtg	ttatatcca	atcaccccaa	acagctcact	gccatctccc
69421	acaccaagag	aaaaaaaaag	ccatagtcac	cgtgatttta	tcaaggcaaa	agcctcccca
69481	cccaagtctg	gatagaaggt	gctttttccc	tcaagcagtg	tctactctct	ttggaacaca
69541	tcccaaattg	caccacctct	gggaaggcat	ccttggttcc	tgtctctacc	ctggatttgt
69601	cagaacctct	gttcttgccc	cctctgtggt	ctctcccttg	ggacaggagc	ccctggaagg
69661	acagaaaacc	cactttattt	atgtctgtgc	cccagggtcg	gcataaggca	ccagcactca
69721	gctgttctct	ccttttcctc	ctggaagggc	acctagctaa	tggatattag	gcattgtctt
69781	gggagctggg	ggcttatttt	ttcctgaggg	agggttctta	acatgacata	aaaaataaaa
69841	atgggcaggg	cgcggtggct	cacgcctgta	atcccagcat	tttgggaggg	caagggtggga
69901	ggatcatttg	aggtcagaat	tcaagaccag	cctggccaac	acggtgaaac	cccattctcta
69961	ctgaaaatac	aaaaattagc	caggcatggg	agcagggtacc	tgtaatccca	gctactcagg
70021	aggctgaggg	aggaaaattg	catgaacctg	ggagacagag	gttgacagaga	gtggatatcg
70081	caccactgca	ctccagcctg	ggcaatagag	cgagactctg	tctcaaatag	ttaataaata
70141	aataaattaa	attaaataaa	aacgcattct	ctttcccccag	ccccaaagtag	cagagcccgc
70201	tctgagcctg	ggcatgggtga	cccattctcc	tctgtctcac	atgcccact	cccagccctc
70261	cagcccctgg	cttcggaatc	atgtcatcag	ggctctccat	gtctctggaa	gggtgtctcca
70321	gtgtggcagg	ccatcagctc	agtgtctggg	taaaggcttc	tacagggccata	gcatggcata
70381	ggggggaggt	gtgcatgcgt	tcctgaagcc	acaaggctct	ctgaggagac	ctgactattg
70441	gggtggggac	tagagactga	ggctccagccc	cttaatgccc	cagactccct	gccatccctc
70501	ggagaatttc	ccaccacact	tatgaatgat	cttcgggaca	ggtgacataa	acatacagct
70561	atggtagagg	cattcagctc	catgccactg	tgagaatgaa	cataccaact	tttaggcaac
70621	aaggccatgt	ggtcaaggag	agaggagaaa	cgaataggag	taggcagggg	tgggtgaagca
70681	ggtctgacat	tggcaaaaagt	gacagagaag	gattggggtg	gaagggtctc	agatggcaga
70741	gaacctctga	aaaagtctca	tgccagctaa	tgaagagtcc	tcaaagtcac	catcacagaa
70801	atcttacatc	tggcagaaat	gacagcaata	gtttggcatg	aaccccacag	tggatccaaa
70861	cgtgtggcag	ctgagatcgt	cagttaatta	tgttctctgc	agctggctct	tctggttccc
70921	tggagctggg	tatctgagta	gcacagctcc	actgtacca	caggagaggg	agaatcccaa
70981	attctgtgca	tagactgtct	aaacctctgg	atgaccctta	agacacatgt	acataaggca
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71221	gtctgtctcc	aagaggatgc	cctctgtgct	gtgtctcac	ccagcagaag	agcaaaaaag
71281	ggcgaacatt	ctcaaaagcc	tcttttataa	ggacatcaat	ccattcatga	gggcagaacc
71341	ctcaagaatt	aatcatttct	caaaaggccc	ctcctcctaa	tgccatcacc	ttggggttta
71401	agttccaaca	catgattttt	ggaaggacac	atacattcaa	atcattgcac	aaccaaagtg
71461	atatttgaa	tttcaaatag	tttgagttt	gagatcaact	aagttaattg	cttgcctgaa
71521	taaaaacatc	acagccgggc	acgatggctc	acgcctgtaa	ttccagcact	ttgggaagcc
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71641	cccatttcta	ctaaaaatac	aaaaattagc	caggcgggccc	ggcgtgggtg	ctcatgcctg
71701	taatcccagc	tctttgggag	gccgagggcg	gtggatcaca	aggtcaggag	attgagacca
71761	tcctggccaa	cacagtgaag	ccctgtctct	actaaaaatg	caaaaattag	ctgttgagac
71821	tactcgggaa	gctgaggcag	gagaattgct	tgagccgaga	tcgtgccatc	gcactccagc
71881	ctgggggaca	agagcaagac	ttcgtctcaa	aaaaaaaaaa	agaaaagaaa	ttttctggat
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72001	aagtcatcaa	atggtacact	tcagatgtac	gcattgtcact	gtatgtaaat	attaccccaa
72061	aatcaacaag	aaccatgagc	aaatactgac	ttctagtga	cgacatgcat	actgaaactt
72121	tcgtagtga	gtataattat	ggctgcagtt	gactctgaaa	tacataaaaa	cctaagttga
72181	tgggtgaata	cagtgattaa	tagatagaaa	tctgtggtaa	agcatacggg	gaaaaatggt
72241	aattgtagat	tctagggttt	atatatat	tcactatata	attaaacgtt	tttatgttta
72301	aaaattttta	taatgttgaa	aaaccatgaa	atcctaccta	acgcagtaag	acaagaaaaa
72361	gagataaaag	gtatatgtac	tgggaagtaa	gaaataaaac	cgtctttgtt	agcagatgac
72421	atgctcatct	atgtagaaaa	tccaaaagaa	tggataaaga	aactcctgga	actaataagt
72481	ggttacagta	aggttgtagg	atacaagggt	aatatacaaa	agtcattcac	tctcttat
72541	accagtaatg	aacaagtgga	aattgaaatt	caaaacaaaa	tactattttac	attaatactc

FIGURE 4 (cont.'d)

72601	caaaaataca	tacttagggt	taaatcta	aaaatacata	caagatcttt	atgaggaaaa
72661	ctgcaaccct	gatgacagaa	atcaaagaga	aactaaagaa	atagacataa	gtaaatattc
72721	cccagaaaaga	ctcaatattg	tcaagatgtc	agttcttcaa	aacttgacct	atagattcaa
72781	tgcaatccta	atcaaaatct	cagcaagtta	tggtgtggat	actgacaaac	ttattctttt
72841	tttttttttt	tttttttttg	agacggagtt	tcgctctgtt	gcccggtctg	gagtgcagtg
72901	gcgcgatctc	gactcactgc	aagctccgcc	tcccgggttc	acgccattct	cctgcctcag
72961	cctcccatgt	agctgggact	acaggcacgc	gccaccatgc	ccggctaatt	tttgattttt
73021	tagtagagac	gggggtttcac	cgtgttagcc	aggatgggtc	cgatctcctg	acctcgtgat
73081	ccaccctgct	cggcctccca	aagtgtcggg	attacaggcg	tgagccaccg	cgcccggcca
73141	acttattcta	aaatttagat	agggaagcaa	aagaccaga	acagctaaca	caacaatata
73201	gtaggaaaaa	aacaaatttg	gaaaatggat	actaccaaac	tccaagactt	actataaagc
73261	tacagtaatc	aagatagtgc	cgtattgggtg	aaagaataga	caaataagtc	aatggaacag
73321	aatagagagc	ctaagaaata	gaccttcata	aatacagtc	actcatcctt	gacaaagtag
73381	catagacact	acaatggagc	aaagattgtc	ttttcaacaa	gtggtgcagg	aacaactgga
73441	tatccacatg	caaaaacaaa	caaacaagca	tgaatctaga	tacagacctt	atgctcttca
73501	caaaaattaa	ctcaaaatgg	attatagatc	taaatgtaaa	attcaaaact	ataaaattcc
73561	cataacatag	gataaaatct	agatgacct	ggtatggcta	tgacttttta	gacataacac
73621	caaagccatg	gtccatgaaa	gaaataattg	gtaagtggga	cttaattaaa	attaaaacct
73681	tccgctctgc	aaaagaccac	actaggagag	ggaggaaata	tttacaagaa	cacatctgat
73741	aaagaattgt	tacttaaatt	atacaaaagc	ttcttaaact	taacagtaag	gaaacaatct
73801	gattgaaaaa	tgggccaaag	actttaacaa	acaaaagaag	atatacaaat	ggcaagtaag
73861	tatgtgaaaa	gaagctgcac	agctgggggg	cgtggtggct	cacgccttta	atcccagcac
73921	tttgggaggt	caaggcgggc	agatcacctg	aggccaagag	accagcctgt	ccaacatgga
73981	aaaacctgtc	tctactaaaa	atataaaatt	agctaggcat	ggtgatgcac	gcctgtcatc
74041	ccagctactt	gggaagctga	ggcaggagaa	tcgcttgaac	ccggaagggtg	gagggtgcag
74101	tgagccaaga	tcgcgccatt	gcactccagc	ctgggcaaca	agagtataac	tctgtctcaa
74161	gaaaaaaaaa	aaaaaagctg	acattctatg	ttatcaggga	aatgcaaat	tagaataacg
74221	caataacaag	ataccactac	atacatatta	gaatggccaa	aattgagaac	actgacagca
74281	ccaaatgtgg	aggaggatgt	ggagcaacag	gaactagaga	gaatgcaaaa	tggtatagcc
74341	acttaggaag	acagcttggc	agtttcttac	aaaactaaat	atactcttac	cacacaatcc
74401	agcaatcaca	ctccttggt	tttacttaca	tcccaacaaa	aaccctcata	tggtatgtca
74461	gagcagcttt	gttcataatt	gtcaaaactt	ggaagcaacc	aaagatgccc	ttcggtaggt
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74581	atcaagccat	gaaaaggcgt	ggaagaaaact	gaagtgtgta	tactataaaa	tcaatctgaa
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74701	aaaaagattg	ccaggggcta	gggcagtggg	agggatgaat	aggcagggca	cagaggattt
74761	tcagggcaat	aacactactc	tgtatgacac	tataatggtg	gatacatggc	cagatccaca
74821	gaatgtagaa	caccaagagt	gaaccttgaa	ctatggactt	tgagtgtgta	ggatgagtca
74881	gtgtaggctc	atggattgta	ataaatgcac	cactgtgggg	ggggggggat	attgataact
74941	ggggggctgt	acatgtgtag	ggacaggagt	aaatgggaaa	tctctacttt	tggtaccggg
75001	ggagggtgta	ccgcattttg	aacaaaaaat	tggacaaaac	gcacaaaagc	aggaaaagaat
75061	gaagcaacaa	aagcagagat	ttattgaaaa	cgaaagtaca	ctccacaggg	tgaggagcagg
75121	cctaagcagg	tggtctcaagg	gcctgaatac	agatttttct	gggggtttaaa	tacctcttag
75181	aggtttccat	tggttacttg	gtgtataccc	tacgcaaatg	aagaggatga	aggagggtta
75241	caaagttatt	tacttggtgt	agaaaattag	ggtttttccc	ttttatttag	ttgtaggaag
75301	cccttagggt	acctgcctcc	agaccctatt	ctcctgcctc	attttattcc	taattttggt
75361	gtgaacctaa	aattgctcta	aaaaatgaaa	tcttttaaac	aagaaaataa	acttataaat
75421	tgcaaatatg	tgtcacttac	ataaaaacaa	agaatttagt	tccctacatc	aggaaaaaaa
75481	cacctataat	tcaatgtaaa	aatgcaaaaa	agccaagaga	aatggccaag	ccatggaaat
75541	tcacagaagt	agaaataggc	agtaataaaa	caatgctcaa	tttcatttat	ctgagaaatg
75601	gagagtaaaa	cttcagtgac	atacaaagga	gtaacaatca	ttttaggaac	aatttttaaaa
75661	ataacacttg	tgatgtggct	caggaaagat	tcatattctc	actgtaggaa	ggtaagtga
75721	tcatttttaga	ggtcagtttt	gcaacttaga	agatcaaatg	catctaccct	ttttctactt
75781	ctagaaatgt	atcttcagaa	gtgccccctc	ctccctcaca	cacccccaag	tgtacaaaaa
75841	taaatgacat	ggatgtggac	tgacgccttg	tttctaatac	caaaaatcag	taaacaaact

FIGURE 4 (cont.'d)

75901	aaaaatctgt	atccatgagg	atttaaagaa	atcctgcatg	agttagaaag	aataaggtag
75961	atgcctgggt	tctaacatag	aaaatatcaa	actggttggt	agatgaaaaa	agcaagttgc
76021	aaagtgaggt	aatgtgtaaa	tgcaagtaagc	aaaatacatc	atatatatag	tactttctat
76081	gtatttacct	atatgagcgt	gatgcctcca	actgcatagc	tgtggctccg	ggagcaggac
76141	cttgtaacag	agcctctgcc	cctgactgtc	ctgagggggc	tttccctggg	aaaggaacca
76201	ggtttgattt	tcagtctctt	ttgttatcac	catgctgaca	gctttgcttg	tcatatgcct
76261	ttccctccgc	tgtactgatt	ttaccttaca	gaagctctcc	ttagtgett	atcagacact
76321	ccctcttttc	caaagaaaag	acagccgcct	tccatgggtca	tctgggtgag	ctcgaggtga
76381	gccccaggga	tcagtgtgcct	cccaccaggc	tgacacccca	gtggtgagga	gttgcctctt
76441	ggctttttcg	aggccaagca	actcagagggt	gtggcaggat	tgcatgtcac	agtggcactt
76501	ccaaggccct	ggagagtgc	tcaacgcctc	tgttattaag	atgtcacaca	ggctgtgcag
76561	caacaactct	agggacaccc	ttcacactga	cagagttggc	aagcttttcc	tataaagggg
76621	cacacagtga	atactgtagg	ctttgtaggc	catactatct	gtcccaacaa	ttcaactttg
76681	cccactgtag	ctgtgaatca	accgtagata	atattaagtg	aatgtgcaact	gctgtttgct
76741	aatagtttat	tgacaaaaac	agctgctttt	gagcagtttg	ctaccccgac	agagactgtg
76801	gggagtccct	gggtggcagcg	agctacaggc	agccagtacc	ccatcagtgt	ggctgggtcc
76861	atcctctcaa	gcctgcctgc	accagacac	tgtcgagtgt	gtcttcagaa	aaactcctaa
76921	aattccccaa	aagcacagtgc	gctccccgag	agccacctcc	ctcaccttct	tacaggggca
76981	ggttcctctt	ccggttccac	cctcctcagc	acggagctca	ggggccatcc	ccacctctct
77041	ttggccgcaa	gcacagacct	tcccacacag	gctcagcagc	tctgcggggc	tgtccccac
77101	ctggagctgc	aggcctccac	tcctggggac	agctgtgacc	atggctctgc	aaagcagcct
77161	tgtgcctagc	tcccaagtca	gctggcagcc	cagagtggaa	caattctgtg	gatcacctct
77221	gagacagcag	cacatctggg	caagcctggc	tccccacccc	tcacctctcg	caacctctga
77281	cccttgccat	gcatgtggta	gggaagctgc	aaccaggcct	cagcactccc	agacctgtgg
77341	gcggtttgct	gtctgaggat	cgtggcactg	ccttccctca	gaggccttgc	cagagccagg
77401	ggatgcagcg	tggcagagct	gtcactggca	accctgctgg	tctccctggg	gctttctcag
77461	ctgggctgtg	ggtcaggaca	aattttctatg	gataaggctg	gatcataatc	tagtgctcca
77521	tggatcatgca	gcgacagact	cgagtctgcc	ttctctcagg	gtggtgagct	caggtaggaa
77581	cgggatgttt	gaagcaagca	cacctgtgag	aaatgcctgt	tttcaactcc	atcccacaca
77641	ctcgtccaga	cactgccagc	ccacccccga	cacacgtgtc	tgaggagggc	tgaggaaaac
77701	agacacctcc	aggagccgca	tactatttcc	tgatgtgtaa	gccagacaac	cctggaaaag
77761	aggtcaggga	accggagtgc	ctgccaacgt	ccccagcctc	cctgcagcaa	aacactctca
77821	tggcaaaact	cctttttaaa	gaaaggtctt	attgctgcaa	ttagacatcc	cagtgtatag
77881	cacaaaacccc	cctgtacaga	gaattattca	agtggtaata	ctgagaaaac	gtgaacacac
77941	acaaaagaat	acaaaactag	acatttagat	cactagaaac	tttctaaggt	aagaaaaatt
78001	tcaaagtgtga	agtgcctttt	agaaactaca	ccacacatgc	cagtgtaaat	ttggtttaac
78061	aatcaatttc	tataaacatt	gcatctaact	gtgcactgat	caactgcaca	acttcaacaa
78121	ttactttccaa	gacaaaagata	aatgctttta	tttccctatg	ttttggtctt	tccttgggct
78181	agagacagaa	gctgcatggt	tcaaaccaga	ttcaaaaagg	aaagcacttc	aaaacagaaa
78241	gtacttcaat	tgtgtatttg	ccttcagcca	catccagaga	cttgtggatc	tcaccgggtt
78301	gggtcccagcc	cttctccaac	cctgaagccc	acagcagggg	tgcaagggca	gccccagatc
78361	gtgcagacat	cacccgaggc	tcccaaaactg	gcccagctgc	ctgaggcctg	catgcctgtg
78421	gccaggtagg	acacatgtgc	aggtttgaaa	actaggccta	caagactgaa	gagtggactg
78481	aagcaaaaag	gggagaaaca	ttagaggcct	acagtaggaa	gagacctttt	atagagtttt
78541	caggaaattc	tcacaataaa	cttgggcaca	aagaccaaatt	tgctgaggcc	agaagcctgc
78601	ttatggtact	gtgacttatg	gggagttagag	gccaaatcag	agagggctgg	ctgggtgatac
78661	cccagaccac	ttgcctcttc	cccttccctg	gcctacaaat	accaggcctc	ctggccctga
78721	gacctcattc	tgggtttcta	tatgggtcaa	ccaaatgcca	tcctttcact	aaaccagggt
78781	gcaaaaatggg	gggggaaggg	gggaagctgg	ggagtacaca	gcacccaaaa	gaaccagagag
78841	agcaagtgtt	ccaaggctac	aggaacattg	gcagagctgg	tggccacacc	agatgggagt
78901	accacatccc	caccaggctt	catgcttcac	tgctagatgc	agggggctag	aagggtctga
78961	tgaatcagga	gctgaactag	aaccttcaag	aaaagaaaag	gcaagggggg	ggctctgtgc
79021	cccgccagga	gaggaaagaa	gaatgtgtgt	ggattgtcca	cagtgaggcc	agaaacgatg
79081	agatgggtgt	aggcagaaaa	gaaggagagag	ggcttcccat	gagaatctgg	ctgggcatgg
79141	gagggatata	gggctcagtt	atcaaggcac	ctttgccata	gtgggggtgcc	agctacattg

FIGURE 4 (cont.'d)

79201 ggtgggatgc ccaggggctg tccctacctg agcactttct tgtctacagg aagtcttggg
79261 gcttttcaag ttcagcataa ggggttccat atgtgaagtg gggattcaca cttagaaaat
79321 ctatcctggg cttcacctga aacactcatc tactgctggg tggcaggaac aagtatacaa
79381 aaccaggggc cttgcctggg cagttcctaa gggacattgg cagggctgac ctgggattca
79441 gctcccctga gtggacagtc tgtggttgcc tggggctccc aggctgagaa ggggtatggg
79501 taattgcact tcggggcaca gtgaacacag gcacgggctg gatgtgccct gggagacaga
79561 aaggagagge tgacctatlc tcaggagctg gctatggctg gacagtgcct gcccggccag
79621 aggaaggcca cagcagagcc actccacaga ctaagacctg tgttgccaag gaatcagaca
79681 ctggccttga ggagacagga ggacaaagcc tgctgctatt aagcccacac cgtagcttag
79741 agatccttca gctcctggc cttcaaaaca aactccaggg cttccactct gaaaggcaaa
79801 ggaatcacct cgtgtttgct tcaccccctt agcaggatga acgaaacgcc taaggcccaa
79861 aaagactgag ggcaggaccc ccagcatctc ccatctcttc cgtgcaggct gggtgagaga
79921 atggcctgga aaggaagcat ctgcgctaca ttgtgcttca ggccccccca gcaactttcc
79981 cggaggtaac tatttgccctg gaaaactagg aaactggggt ttaaaaacag aattttaagc
80041 agacttttta gagggacaag gccatttgat ggtagtgatt ttggttttgt tttatgaaaa
80101 tggtagcagg gttaatccct gatgacagaa tgcactgaga gtggggccaa gggccctgaa
80161 ggatcctgtc tgttcagtc ggtaaaggcg acagctgggc gggcatgtgg ccggggagca
80221 gtggcacagc ggaccctggc agtttgctca cacctggccc tcgtcccaga gccagcccac
80281 ctgcctcttg gccctggtag tgactccaca gaacttcccc gagcagaagc ctcacagtgg
80341 gccagcacc atcttgcatg caaggagaa cctgcatgca gtgcacacac cccggccagg
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80461 aggaatatatt tttaaatatt cagttttgtt gtcattactc acttcctttc cttccatttc
80521 gatctcagaa actgttcttt ttcagtgttg acaaaaaaga aatgtatggg ccagggtctac
80581 aaagtaacac cttgtcataa aacaggctca aaagcatagg aatcatgctt taattgccat
80641 ttagcatcca ctaattccca tgagatctgt gattaaaaaa aaagcctctg gctgtcttgt
80701 cctgtcttaa aagtcagag ttgtttttat gaacagaaaag aatgccacgc ttcttagcat
80761 atgtaaggca aaatggattt ttgatctctc atgatgtaaa ggagatacaa aggtaaggaa
80821 gggaagattt ctaagtgaga ctttttttga gtgtcaatcc cgtggacac acatattaca
80881 aaataaagat tttcttctgt aaagtctgt ttgctcagtg aatcatgcgc caccacagag
80941 caccatggct ccacctgctc aagagcatgg aggaggcagc atcggcagag ggcaggcagg
81001 agtctgtgtt tgggggtctg tttcaatacc atctcctggg gttcgcctg atgcagaggg
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81121 agctggaggc ggctgggtat cagggcctgg gcacctctgc tcctcctctt ccctgggat
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81481 caatcagacg tgaatgattt ctgctccagt gtcttcaggc tctgtgcaac aagaagagtt
81541 tgtgtcgaa tgacagattc catatccatg tttattttca aagttgggct ctgttagtgg
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81661 attataggcc ttgagtctct tccacaattg cacatacact ttacactgaa catacataaa
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81781 taggattcct ggaagggaag aactcagcct attagatttt atttaagata tgtcttcacc
81841 acggggctga agnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
81901 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnggcgggtga
81961 ctgtgacatt gaggttcggc gtcgggggag agggaaaagg agaggagag ggagagggag
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82141 cagtatggct attttcacga tattgattct tcctacctat gagcatggaa tgttcttcca
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82261 cttcacatcc cttgtaagtt ggattcctag gtattttatt ctctttgaag caattgtgaa
82321 tgggagttca ctcagtattt ggtctctctg ttgtctgtta ttggtgtata agaagcttg
82381 tgattttttac acattgattt tgtatactga gactctgctg aagttgccta tcagcttaag
82441 gagatttttg gctgagacga tgggggtttc taggtataca atcatgtcat ctgcagacag

FIGURE 4 (cont.'d)

82501	ggacaatttg	acttcctctt	ttcctaatacg	aatgcccttt	atttccttct	cttgccctgat
82561	tgccctggct	agaacttcca	acactatggt	gaataggagt	ggtgagagag	ggcatccctg
82621	tcttggtgcca	gttttcaaag	ggaatgcttc	cagtttttgc	ccatgatgta	tgatattggc
82681	tgtgggtttg	tcatagatag	ctcttattat	tttgagatac	atctcatcaa	tacctaat
82741	attgagagtt	tttagcatga	agcgttgctg	aattttgtca	aaggcctttt	ctgcatctat
82801	tgaaataatc	atgtgggttt	tgtcattggt	tctggttgta	tactgggtta	catttattga
82861	tttgtgtacg	ttgaaccagc	ccttgcatcc	cagggatgaa	gcccacttga	tcatgggtga
82921	taagcttttt	gatgtgctgc	tggattcggt	tgccagtatt	tattgaggat	ttttgcatcg
82981	atgttcatca	aggatattgg	tctaaaatgg	gttttttgtt	gggtctctgc	ccagcttttg
83041	tctcaggatg	atgcctcccc	tattaaaaga	gggagggagg	attccctctt	tttctattga
83101	ttggaatagt	ttcagaagga	atggtaccag	ctcctccttg	tacctctggt	agaattcggc
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83221	ttcagagcct	gttattgggtc	tattcagaga	ttcatcttct	tcctgggtta	gtcttgggag
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83461	tagcggctca	tcaattttgt	tgatcttttc	aaaaaaccag	ctcctggatt	cattgatttt
83521	ctgaagggtt	ttttgtgtct	ctatttcctt	cagttctgct	ctgatccttag	ttatttcttg
83581	ccttctgcta	gcttttgaat	gtgtttgctc	ttgcttctct	atttcttttc	attgtgatgt
83641	taggggtgtca	atttttagatc	tttctgctt	tctcatgctg	gcatttagtg	ctataaattt
83701	ccttctacat	attgctttga	atatgtccca	gagattctgg	tatgttgtgt	gtttgttctc
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83821	caggagcagg	ttgttcagtt	tccatgtagt	tgagtgggtt	tgagtgagtt	tcttagtcc
83881	gagttctagt	ttgattgcac	tgtggctcga	gagatagttt	gttacaattt	ctgttctttt
83941	acatttgctg	aggagagctt	tacttccaac	tatgtgggtca	attttggaat	aggtgtgggtg
84001	tgggtgctaaa	aaaaatgtat	attctgttga	tttgggggtg	agagttctgt	agatgtctat
84061	taggtccgct	tgggtgcagag	ctgagttcaa	ttcctgggta	tccttggtta	ctttctgtct
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84181	gtctaattct	ctttgtagat	ctctaaggac	ttgctttatg	aatctgggtg	ccctgtact
84241	gggtgcatgt	atgttttagta	tagttagctc	ttcttggtga	attgatccct	ttaccattgt
84301	gtaatggcct	tctttgtctc	ttttgatctt	tgttggttta	aagtctgttt	tatcagagac
84361	taggattgca	acccctgcct	ttgttttcca	tttgcttggt	agatcttctt	ccatcccttt
84421	attttgaaac	tatgtgtgtc	tctgcatgtg	agatgggttt	cctgaatata	gcacactgat
84481	gggtcttgac	tctttatcca	gttttccagt	ctgtgtcttt	taactggaac	atttagccca
84541	tttactttta	aggttaatat	tgttatgtgt	gaatttgatc	ctgtcattat	gatgttagct
84601	ggttattttg	ctagttagtt	gatgcagttt	cttcttagca	tcgatgggtc	ttacaatgtg
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84721	agctctttta	gggcaggcct	ggtgggtgaca	aaatctctca	gcatttgctt	gtctgtaaag
84781	gatttttatgt	ctccttcatt	tatgaagctt	agtttggttg	gatatgaaat	tctgggttga
84841	aaattctttt	ctttaagaat	gttgaatatt	ggccctcact	ctcttctggc	ttgtagagtt
84901	tctgccaaga	catgagctgt	tagtctgatg	ggcttccctt	tgtgggtaac	ctgacctttc
84961	tctctggctg	ctctcaacat	tttttccctg	atttcaactt	tgggtgaatct	gacaattatg
85021	tgtcttgagg	ttgtctctct	cgaggagtat	cttttgtggca	ttctctgtag	ttcctgaatt
85081	tgaatgttgg	gctgccttgc	tagattgggg	aagttctcct	ggataaatat	ctgcagagtg
85141	ttttccaact	tgggtccatt	ctccccgtct	ctttcaggta	caccaattag	atgtagattt
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85261	tctaaacttc	tcttcatgct	tcatttcatt	gatttgattt	tccatcccca	atacccttct
85321	ttccagttga	ttgaatcagc	tactgaggct	tgtgcattca	tcatgtagtt	ctcatgccat
85381	ggttttctgc	tccatcaggc	catttaagga	cttctctgca	ttggttattc	tagttagcca
85441	ttcatctaat	tttttttcaa	ggtttttaac	tgttttgcca	tgggttcgga	cttctcctt
85501	tagctcagag	tagtttgatc	atctgaagcc	ttcttctctc	aactcgtcaa	agtcattctc
85561	catccagggt	tgttctgttg	ctgggtgagga	gccgtgttcc	tttggaggag	gagaggcact
85621	ctgattttta	gagcttccag	tttttctgct	ctgtttgttc	ctcatctttg	tgggttttct
85681	tacctttggg	ctttgatgat	ggtgacgtac	agatgggggt	ttgggtgtgga	tgtcctttct
85741	gtttgttagt	tttcttctta	gaattcagga	ccctcagctg	caggtctggt	ggagtttact

FIGURE 4 (cont.'d)

85801	ggaggtccac	tccagaccct	gtttgcctgg	gtatcagcag	cagaggctgc	agaacagtgg
85861	atattggtga	acagcaaattg	ttgctgcctg	atcattcctc	tggaagtttt	gtctgagagg
85921	agtaccacagc	cgtgtgaggt	gtcagtcctgc	ccctactagg	gggtgcctcc	cagttaggct
85981	attcgggggt	cagggaccca	cttgaggagg	cagtctgccc	attctcagat	gtcaagctgt
86041	gtgctgggag	aaccacttct	ttcttcaaag	ctgtcagaca	gggacattta	agtctgcagt
86101	ggttattgct	gtcttttgtt	tgtctgtgcc	ctgcccctgg	aggtggagtg	tacagaggca
86161	tgcaggcctc	cttgagctgt	ggtagggctcc	agccagttca	agcttcccgg	ctgctttgtt
86221	tacctactca	agcctgggca	atggcgggca	ccccccccc	agcctcgctg	ccgccttaca
86281	gtttggtctc	agactgctgt	gctagcaaag	agtgaggctc	tgtgggtgta	gaaccctcca
86341	agctatgtgt	gggatataat	ctcctgggtg	gctgtttatt	aagcccattg	gaaaagcaca
86401	atattagggc	aggagtgacc	caattttcca	ggtgccatct	gtgaatgctt	tctttgacta
86461	ggaaagggaa	ttccctgacc	tcttgccctt	cccagggtgag	gtgatccctc	accctgcttt
86521	gggtcacgca	tgggtgtgcta	caccactgt	cctgcaacca	ctgtctggca	ctccccagtt
86581	agatgaaccc	ggtacctcag	ttggaaatgt	ggaaatcacc	tgtcttttgc	atcgctcatg
86641	ctgggagctg	tagactggaa	ctgttcctat	tcagccatct	tggctccacg	tatatccact
86701	gccacacttc	tttagtcata	aagtgagtgc	cttggtcaga	ggcaatgctg	tgtggaatac
86761	catgatggtg	gataaggcat	tctgtgagtc	catgaatggt	agtcttggca	gagcattgtg
86821	ttcagtttag	gcaaaccat	atccagagta	agtgtctggt	tcagtggagg	caaacctctg
86881	cccttttcag	gatggaagag	gtccagtata	accaaccttc	caccaggtaa	cagactgata
86941	accccgagga	atgggtgcat	attgagggtc	cagtgttagt	ctctgctgct	gtcaaattgg
87001	gcactcagct	gtagccatag	ccaggccagt	tttgggtgagt	ggaagtccat	gttctgagc
87061	ccatgtataa	cctccatccc	tgccaccatg	gccactttgt	ttatggggcc	attgggtgat
87121	aacaggggtg	gctggggaaa	gaggctgagt	gatgtccaca	gaacagggtc	tcttatccac
87181	ttgattatta	aaatcctcct	ctgctgagat	caccatttgg	tgagcactca	catgggatcc
87241	aaatatcttc	acaggttttg	gccactcaga	gaggtccatc	cacatacctc	ttcccaaat
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87361	attggctaca	gcccataaat	caatatataa	tcgcacatct	ggccatttat	ccttccatga
87421	aaagtgcaca	accagggtgca	ctgcttgaag	ttctgcccac	tgggaagatt	tcccttcacc
87481	actgcccttc	agtgatgtcc	tagaaagggg	ctgtagtgct	gcagctgtcc	acttttgggt
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87601	caactgatca	tagagaactc	cccatgaggc	catcggtgca	ggctggggaa	gagaagggtg
87661	ggtggcagtt	gtggagacca	tgggcatttg	agctacttcc	ttgtgtaact	tacttgtgcc
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87781	ctgtgcata	cccattttat	ggctacatgg	gtcagaaagc	acccagttca	tgatagacag
87841	ttcagttcac	atgggtgactt	gatgacccat	aatcaaatgt	tcagtttcca	ccaaagctca
87901	gtaacaggcc	aagagctgtc	tttcaaaagc	acagtagtta	tatgcagaaa	atggcagggc
87961	cttgtttcaa	aatttttagag	gcatctgctg	tgattcacct	gtgggggctc	gccaaaggct
88021	ccaaacagca	tccctatctg	ccactgatgc	ctcaagcacc	attggatctg	ctgagtcata
88081	tggcccaaac	agcagagcag	gttgagacagc	agcctggacc	tgaggcagag	ccttatcctg
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88921	caatccctcc	agggatgtga	tattgttttt	gatttaccat	ttttctaggt	agaggcagct
88981	ctaattgcctt	ccatttggcc	tttcccacca	taataggcct	caccctacca	gtcagggagc
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FIGURE 4 (cont.'d)

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89221	gacgttttga	gtcccttaga	attaacgtca	gctcagagct	agtgtcctgt	aatcccccaa
89281	atgactgata	atttcccttt	ccccaatgca	cagttacctt	gataaaaaggc	tggaggctctc
89341	cttgggaaaa	aatgggagaa	agattaacag	cataaattgt	tggtagtgtg	gtgggctcct
89401	tccttaaatgg	gacccaactt	ccccctttatt	caaggggttc	tgtgtctgtg	aactgggtcca
89461	agtcaaaaat	tgattgaggg	gccatgattc	tctattttta	taattcaaag	tagtgttttg
89521	tccatttgac	ctggaagttt	tctgcttata	taaatataag	aggaaaagaag	taggcatcct
89581	aacaatttca	cttctgggaa	cactgtgatt	aattagcgaa	tgccagaact	ctacatgagt
89641	cagactattc	tgattgctgc	tttgccacta	ctgtctgtta	tggtagttaa	gccaccttg
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89761	tgtattttacc	tttattagtt	gagtgtactgt	ggttctcacc	attggatctg	atatgcagag
89821	aattacgggg	ctcttcaaag	atgcagggtgc	tacctcaca	gatctatttt	gcaaggattt
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90181	accattatcc	cacaccctta	atatccattc	tcatgcctgt	tctccagatt	tctgtttata
90241	taaattagaa	aactcaagta	gttcttttca	agtatagtga	acctcctcat	gggttttact
90301	ctcaacctca	cctcttgggg	cccataagga	ctttagtctg	gttatagggtc	tagaagcaga
90361	caggggtggt	gggggtggct	cctgaggaga	atcaacatta	ttttgcctgg	caactgtcca
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90961	ctaaactcct	tgctctcat	gagcgctgaa	tcaggaaatgt	caaatgcatt	tattttgctt
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91081	tagagtccct	agcatttttg	agtctaataca	tattaaacag	ccactccaga	aaccttaaaa
91141	ccaatgaaag	aactgcaccc	ttaatgttct	gttctcttag	aacctactct	ggtacaaaaa
91201	tctgtgttag	ggttctctag	aggggcagaa	ctaataaggat	agagatatat	aagaaggaaa
91261	gtttattaag	tattaactca	catgatcaca	aggtcccaca	ataggatatc	tgcgaagctga
91321	ggaacaagga	gagccagtc	aagtcctaaa	ctgaagaact	tcgagtctga	tgttcaaggg
91381	cagggagcat	ccagtaccag	agaaagatgt	aggctgggaa	gctaggccag	tttagtcttt
91441	tcattgtttt	ctgccaactt	ttcatattct	agctgcactg	gcagctgatt	agatggtgcc
91501	cacccagggt	aagcgtgggt	ctgcctttcc	cagcccactg	actcaaatgt	taatctcctt
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91681	gcggatgtta	gcatagttat	cacactgttt	cctcacacaa	tccactaccc	atggcttggt
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91801	gaattgttac	aattgcattt	tgaattgtta	ttattttaaat	atagggtcaat	ttctaaatag
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92041	aggctatgta	gtacatttct	gggtcaaatc	tctattgctt	taaaactttg	tggttttgct
92101	tcattatctc	ctagtatcta	cagttactga	agtatacgt	acaaccagct	ttggacatga
92161	tgaatgtttt	aggctaaaga	cttgggtggt	ctttggtctt	tgggaagttt	ctttaataact
92221	ctctttaaat	ttgtctgatt	ccacttcttg	gttccctttt	caggaacacc	aagtattcac
92281	acagtggata	gtcatctgtc	ctctacttct	aaaattttgt	tatttaacaa	aatgttataa
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FIGURE 4 (cont.'d)

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92461	tattccatgc	tatgtattta	caacagtttg	tttaccatt	cacctgttga	aaaacatctt
92521	ggctgaatct	agttcttagc	tattaatatt	ataaaciaag	atgctataaa	catttggttg
92581	acagtttttt	gtgtgaagtt	tttatttttc	tgggataaat	gcctgggagt	gcaattgctg
92641	ggcatatga	tagttgtgtg	ttttcttttg	agaaactccc	aaaatttccc	agagtggatg
92701	aagtatttta	tgtttctatc	agtaatgtat	cagtgatccg	gtttctacac	atccttacca
92761	gcatttggtg	gtgtcatgat	ttttaatttt	agccattctg	atagatgagt	agtgatagct
92821	tattgttggt	tcaatttgca	tttccctaaa	acctaataat	tttgaacatc	ttttcatgtg
92881	attatttgct	gtccatgaaa	tatctgtgga	aacagtgagt	agaaggatgc	tttccacagt
92941	ctgagaagga	cagctgggag	aggtggatga	agagagggtg	gtatatgggt	acaaaaatac
93001	aattaagacc	tctgggtccat	gctgggcaca	gtggctcatg	cctgcaatcc	cagcactttg
93061	ggaggccaaa	gcgggtggat	cacctgaggt	caggagctta	agaccagctt	ggccaacatg
93121	gtgaaaccct	gtctctactg	aacatacaaa	aattagccgg	gcatgggtgt	gcgtgcctgt
93181	aatcccagct	actcaggagg	ctgaggtggg	agaatcactt	aaacccggga	ggcgaagtgt
93241	gcagtaagcc	gaggtcacac	cactgcactc	cagcctgggc	aacagagcac	tccagccggg
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94321	ggagctgtgc	catgaggagt	gggtgcattcc	agcccagata	ctatgctttt	cccattggtc
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94561	gccgaagcca	gggaaccagg	tgggtctagct	cagtggatcc	cacccccatg	gagcccagca
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95401	aaatccatga	agatggggag	aaaccagcac	aaaaaggctg	aaaattccaa	aaaccagaat
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95581	agctaaagga	gaatgttcta	acccaacgca	aggaagcaaa	gaaacttgaa	aaaagattag
95641	atgaattgct	aactagaata	acgagtttag	agaagaacat	aatgacctg	atggagctga

FIGURE 4 (cont.'d)

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95761	tggaagaaag	gatatacagag	attgaagatc	aacttgcaga	aaccctataa	gccagaagag
95821	actagggggc	aatattcaac	attcttaaag	aaaagaattt	tcaatgctga	atttcatatc
95881	cagccaaact	aagcttcata	agtgaaggag	aaataaaatt	ctttacagac	aagcaaattg
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96181	agacacagac	tggaacatg	gataaagagt	caagacccat	cagtgtgcag	tattcaggag
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96301	caagcaaattg	gaaagcaaaa	aacaaacaaa	caaaacaaaca	aacaaacaaa	caggggttgc
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96541	ataatagtgg	gagattttta	tacccactg	tcaatatcag	acaggtcaat	gagacagaaa
96601	attaacaagg	atatctagga	attgaactca	gctccagact	aagcagacct	aatagacatc
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96721	tattctaaaa	ttgaccacat	aattggaagt	aaaacactcc	tcagcaaattg	cagaagaattg
96781	gaaatcataa	caaacagtct	ctcacaccac	agcgcattta	aattagaatt	cagaatttaag
96841	aaactcactc	aaaacctcac	acttacatgg	aaactgaaca	acctgtctct	gaatgactgc
96901	tggaataata	atgaaatgaa	gaaggataaa	gatgttgttt	gaaaacaata	agaataatgt
96961	accagaaact	ctgggacata	tttaaagcag	tgtgtagagg	aaaattttata	gcagtaattg
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97081	tagagaagca	agagcaaaca	aattcaaaag	ctagcagaaa	acaagagata	actaatgatca
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97621	tttgtgaata	gaaagggggg	aaaggtgggg	aaaagattga	gaaatcggat	ggttgccgtg
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97741	cttctgcctg	gggatcctgt	ggatctgtga	ccttaccccc	aaccctgtgc	tctctgaaac
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97861	acagatgctt	gaaggcagca	tgctccttaa	gagtcatcac	cactccctaa	tctcaagtac
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98101	taaaataaaa	taaaataaaa	aaagaaataa	acacaaataa	aatgttaaaa	ttcccatctc
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98281	tatcttccag	cataaatgag	actttcacat	gttttctctt	gccagatgg	agacactaac
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98641	gaggaaaaag	gagaagagtc	aaatagacat	aataaaaaat	gataaaggag	atatcaccac
98701	tgatcccaca	gaaatacaac	ctaccatcag	agaatattat	aaacacctct	atgcaataaa
98761	accagaaaat	ctagaagaaa	tgataaaatt	cctggacaca	tacacctccc	caagactaaa
98821	ccaggaaaga	gtcaaatccc	tgaataagcc	aataacaaac	tctgaaattg	aggtggtaat
98881	taatagccta	ccaacaaaa	aaagtccagg	accagacgga	ttcacagctg	aattctacca
98941	gaggtaacaa	aggagctggg	accatttcctt	ctgaaactat	tccaaacaat	agaaaaagag

FIGURE 4 (cont.'d)

99001 agaattctccc taactcattt tacgaggcca gcatcatcct gataccaaag cctggcagag
 99061 acacaacaaa aaaagaaaat ttcaggccga aatccctaata gaattattgat gcaaaaatcc
 99121 tcagtaaaat tctggcaaac cgaatccagc agcacatcaa aaagcttatc caccatgatc
 99181 aagttggctt catccctggg atgcaaggct ggttcaacat atgcaaatta atgaacgtaa
 99241 tgcatacat aaacagaacc aatgacaaaa accatgtgat tatctcaata gatgcagaaa
 99301 agaccttcga caaaattcaa cagcccttca cgctaaaaac tctcaataaa ctgatatttc
 99361 atggaacatg tctcaaaaca atcagagcta tttatgagaa acccacagca gccaatatca
 99421 tactgaatgg gcaaaaactg gaagcattcc ctttgaaaac tggcataaga caaggatgcc
 99481 ctctctcacc actcctattc aacatagtat tgggagttct ggccagggca atcaggcaac
 99541 agaaagaaat gaaggatatt caattaggaa aagaggaagt caaattgtct ctgtttgcag
 99601 atgacatgac tgtatattta gaaaacccca tcatctcagc ccaaaatctc cttaaagctga
 99661 taagcaactt cagcaaagtc ttgggataca aaatcaatgt gcaaaaatca caagcattcc
 99721 tatacaccaa taacagacaa accgagagcc aaatcacgag tgaactccca ttcacagttg
 99781 ctgcaaagag aataaaatag ttaggaaatcc aacttacaag ggatgtgaag gacctcttca
 99841 aggagaacta caaatcactg ctcaatgaca tcagagagga cacaacaaaa tggaaaaaca
 99901 ttccatgctc atggatagga agaatacaata tctgtaaaat ggccataata tccaaagtaa
 99961 tttatagatt gaatgctatc cccactcaagc taccactgac tttcttcaca gaattggaaa
 100021 aaactacttt aaatttcata tagaaccaaa aaagagcctg catagccaa ccaatcttaa
 100081 gcaaaaataa caaagctgga ggcatacacac tacctgactt taaactatac tacatggctg
 100141 cagtaaccaa aacagcatgg tactagtacc aaaacagata tatagaccac tggaaacagaa
 100201 cagaggcctc agaaataaca ccacacatct acaactatct gatctttgac aaacctgaca
 100261 aaaacaagca atgggggaaag gattctctac ttaataaatg gcattgggaa aactgggttag
 100321 ccatatgcag aaagctgaaa ctgatccctc tccttccact gtatacaaaa attaaactcaa
 100381 gatgggctaa agacttaaat gtaagaccta aaaccataaaa aaccctaaaa gaaaacatag
 100441 gtaataccat tcaggacata ggcattgggca aagacttcat gactaaaaa caaaaagcaa
 100501 tggcaacaaa agccaaaatt gacaaaatgg atctaattaa actaaggagc ttctgcacag
 100561 cgaaagtaac taccatcaga gtgaacaggc aaccaacaga atggggagaac atttttgcaa
 100621 tctatccatc taacaaaggg ctaatatcca gaatctacaa agaacttaaa caaatttaca
 100681 agaaaaaaca aacaattcca tcaaaaagtg ggtgaaggat aagaaaagac tcttctcaaa
 100741 agaagacatt tatgcagtca acaagcatag gaaaaaaagc tcatcatcac tggtcattag
 100801 agaagtgcac atcaaaaaca caatgagata ccatttcatg ccagttagaa tggccatcat
 100861 taaaaagtca agaaacaaca gatactagag agcatgtgga gaaataggac cactttttaca
 100921 ctggttggtg gagtggaat tagttcaacc attgtggaag acagtgtggt attcctcatc
 100981 tgcaccagcg ggtggaggt cgnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn
 101041 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn
 101101 nnagaaacat agaccctgcc caacgcatat tcctgaaagg gatggcaagg ttttttttaa
 101161 ggtttttatg gtttaggtgt actctaaagg attttaacc ttctaaaatt atttttgtat
 101221 aaaggtgtaa gaaagggatc caacttcact cttttacaaa tgggaagcca gtttttccc
 101281 gccccttttt ttaaaaagga ttccctttcc cattgggtgt ttttttcaag gttgtcaaa
 101341 atcagaagg ttagatgtg ggttggtaat ttttaggggt ttgttttggg cccattgggc
 101401 cataggctcg ttgtggtacc agggccatgt tgttttgggt actgtaagcc tcgtagtatg
 101461 gtttggaagtc aggtagcatg atgcctccag ctctgttctt ttggcttagg attgtcttgg
 101521 caatgcccgc tcttttttgg gttccatag aacttttaaag tagtttttcc caattctgtg
 101581 cagaaagtca ttggtagtgt gatggggatg gcattgatct ataaattacc ttgggagtat
 101641 ggccattttc atgatattga ttcttctctat ccatgagcat ggaatgttct tccatttgtt
 101701 tgtgtcctct tttattttgt tgagcagtg tttgtagttc tccttgaaga ggtccttcac
 101761 atcccttgta agttggattc ctaggatatt tattctcttt gaagcaattg tgaatgggag
 101821 ttcactcatg atttggtgt ctgtctgtta ttggtatata agaatgcttg tgatttttgc
 101881 acattgattt tgtatctga gactttgctg aagttcctta tcagcttaag gagattttgg
 101941 gctgagacga tgggggtttc tagatataaa atcatgtcat ctacaaacag ggacaatttg
 102001 acttctctct ttcctaattg aatacccttt atttctctct cctgcctgat tgcctggcc
 102061 agaacttcca acactatggt gaataggagt ggtgagagag ggcacccctg tcttgtgcca
 102121 gttttcaaaag ggaatgcttc cagtttttgc tccttcagta tgatattggc tgtgggtctg
 102181 tcataaatag ctcttattat tttgagatag atcccatcaa tacctaattt attgagagtt
 102241 ttcagcatga atggttgttg aattttgtca aaggcctttt ctgcatctat tgagataatc

FIGURE 4 (cont.'d)

102301	atgtgttttt	tgtcattggt	tctgtttata	tgctagatta	catttattga	tttgcgtatg
102361	ttgaaccagc	cttccatccc	agggatgaag	cccacttgat	catggtggat	aagctttctg
102421	atgtactgct	ggattcgggt	tgccagtatt	ttattgagga	ttttcgcatt	gatgttcac
102481	agggatattg	gtctaaaatt	ctctttgttt	gttgtgtgtc	tgccaggcct	tggatcggg
102541	atgatgctgg	cctcatataa	tgagttaggg	aggattccct	ctttttctat	tgattggaat
102601	agtttcgcca	aactgacatg	atttttaaaa	ttccctatag	ggtcaatgtg	cagattttaa
102661	gatccctaca	ctcagtagtc	ctgggtaggg	gtcgggggat	ccatatgttt	aacaagcagc
102721	ctagagtctc	ccgatagcct	gggcaagcct	taaaaagccc	tgccgacatt	cggatgaaac
102781	aaaggtgcac	agaacctata	tctctgccat	ttattagctg	ggggccttag	gcaaggagg
102841	tagtcaacct	ccgtattcct	cagttcctca	actgtaaaat	ggggatgatg	actgtggctc
102901	cctcgtgggg	ttgtgacgga	ggaacagggg	acatatgtcc	tgggatcagc	actggcaatt
102961	tggccattct	taccatagca	cctgccatct	tggtgacagc	ctggacacaa	agccttcaca
103021	cctttgaagt	ggccatagag	agcatgagat	atggatgggg	aggaggcatt	ccaactaaag
103081	acccctgctt	tgggccaata	acacatgtat	gtctggtgtc	tggagtcctc	tggttatgcc
103141	ttttttaaga	taccggttgt	cctgcaattg	tcggttgaga	atccactcta	tggccaacat
103201	atcatcaaag	cgtttggtct	agctaggctg	ttcccccaac	ccaaggaccc	catgaggaaa
103261	ggagtggagg	ttccaccccc	agcaccagcc	actggagggg	ctgcccagag	tcctcagtt
103321	ctcgtaaaact	tacgctttgg	agtaattcag	aacaaagtcc	actccttttt	cactatcaaa
103381	ctggatatca	cgggggtaaa	ccttgtggca	tttggcatcg	atgctcaagg	ggaagccagg
103441	gttccactcc	atccatctga	gcatgagaaa	ggagaagaaa	ttgagttaaa	tgccagcctt
103501	tggtctgccc	cctcagctga	gggcccggcc	cactgtcaga	cgatgttaca	caggagatt
103561	gatgtactca	aaataaagtc	aacacatcat	aggctgaccc	tgtgtccagt	aaggttctgg
103621	gacctcttcc	aaagtccagt	cgcaccaact	ttgctgtgcc	ctgagcatca	gagtgggaac
103681	cctgagactg	ggcttatagt	ggtacagggt	tgaccactg	cataaaaagt	tctgtaggta
103741	gtctagggag	acctcactta	ctagagggtga	cattgaacag	tagaggcctg	ccttgccagt
103801	cactggagggt	agaagggtatt	aaggctgccc	agccacgccc	aacctggaca	tccaccattc
103861	tgccaacttg	atcagtgtgt	gccctggact	gcgtgcatgt	cctgcatgtg	gcatttgggg
103921	aaatgggaca	gttcttctgc	cttcacaata	ggacgacacg	gcagcagggt	gcctgggaga
103981	gggaccagg	cacagatggc	taaaaggctt	ccctctctca	cctgctggcc	aatagcagct
104041	ttagagattta	ttacaatcaa	aacagcttcc	ccaaagacaa	gccacggact	gcattccagta
104101	aacatgctca	gatcctgaca	tccttgaaac	gtatcccgtg	gcattgggca	tttgtgtttt
104161	tgaaaaatgt	ttattttgct	tttttgtttt	cttattgagt	aaacttaaat	tgtgaaaatg
104221	tcagagggtg	ttgaaccaca	gcaactccat	cttgaatagg	ggctgggtaa	aataaggctg
104281	agacctactg	ggcagcattc	caggagggtt	aggcattcta	agtcacagga	tgagacagga
104341	cattgatgca	agatacaggg	cagaaagacc	ttgctgataa	aatgggttgt	ggtaaagaag
104401	ccggccaaaa	cccaacaaaa	ctaagatggt	gatgaaagtg	acctctgttc	atcctcacca
104461	ctcattatat	gctaattata	atgcattagc	atgctaaaag	aaactccac	cagtgcattg
104521	acagttttaca	aatgccatag	taatgtcagg	aagttaacct	atatggtcta	aaaaaggagg
104581	gaaccttcag	ttcctggaat	tgcccacccc	tctcctggaa	aactcatgaa	taatccactc
104641	attgttttagc	acatgatcac	gaagtgactg	taagtatgct	cagtcgagta	gcccattgcta
104701	ctgccttgcc	tatggagtag	cctttcttta	ttgctttact	ttcctaataa	acttgctttc
104761	actttatgga	ttcaccctga	attctttcct	gtggagggtcc	aagaactctc	tcttggggtc
104821	tggatcagga	cccctttctg	gtaacaaaaa	caaaatgaaa	tcctgttagt	ttcttggggg
104881	agggagaatg	attttgtgtt	tgtttaaaaa	ccagatttta	catttttaggg	ttttagcttt
104941	ttcattttata	ttcctaattc	tccttccttt	taaaattttc	ttttgagagg	aaagtaaaat
105001	atcgagattt	tgggtcttaa	aaaagtcctg	agttatttta	atatgatctt	gtgctttgac
105061	tttccccaaa	tcccaactgt	cacagtgtcc	tcttgggcca	gtagcctctc	cttaggatca
105121	caagaagtga	acagggaccg	ggtatgatcc	ttctgacagc	aaaggcattt	tgtcaagtgt
105181	tttctgttat	gtggcacctt	acatttctca	ctgttgggtt	atttagaata	ttctacgtcc
105241	tcagattttta	agaaaaacct	acatttttgc	tgtttgattt	aatgccaatg	atagatatatt
105301	aacaaggata	aaaatgtgga	caagtctaca	cattttttgt	ttgtttgttt	tggaaaaatga
105361	ctcaaggcat	ctccaatata	tatctaaaat	tgagccattc	agtagcctca	ctggtagtaa
105421	tgatcaatta	attagctatc	attagtcata	tcaattttaa	tattactgat	gattttctct
105481	ttgcctggac	agttcaaggg	ctctagttaa	ttttaaaagc	tcagtggagc	tagatgtttt
105541	tcagtatgta	aacaatgagc	catgcaaggg	catctgtgcc	agcaaatggc	attaatgttt

FIGURE 4 (cont.'d)

105601 tcttaagtga atagtccact tggacggatg tggaaatactt cttcagcacc aaaaagacct
105661 tcttgcccca tgccctgccc tgggtctatgg aggggtggcag caccaatggg cagaaatgcc
105721 ccacttggtg ggtagaaga tgatggcctc acagcacatg gagacaggac agcttgcttg
105781 ctagttcact actgcccccc tgaaccacaa tgtttatgtc cttccactg caggtcactg
105841 ctgcttaaga gaccctgaca ggctgacctg cacaggagcc gaaggcctgc atggccacag
105901 acattaactg gtggagatgg aatccactc cattgaggaa gaccaagtgg aacaccagg
105961 cagaaggaac aaagaagtag aaaggcattt aattttattgg aaaaaaatg agagagagag
106021 agaaaagagag agagagaaaag caagagagac agagagagag agagagagag agagagagag
106081 agagagagag aaagcaagag agacagagag acagagagag agagagagag agagagagag
106141 acagacagag agatccctaag gggatgcagt tagtataatt ggagtgtaaa aagactttct
106201 gtaaccacaa acatgatttc tgaatgaaga cttcaataga gaaacagaca aagagaataa
106261 tcaactgtgag atgtttggtc tcttgatta aaagaaaagc tttagacaaa ttaaatttag
106321 cagtttaatt gagcaaagaa caattcaaga atagggcagc ccctaaacca gagcaggctc
106381 cgagtgactt tgatgctgtc tcatagttgg ataggattta tgggcagaaa aaggaacgtg
106441 atgtacagaa aatggaaagt aggtacagaa acagccagat tgggtgatggc tcagcatttg
106501 ccttacttga gccagtttg aacagctggc cactgtgagt ggctgaagtc tggccgctgt
106561 gattggctga gacttggtta cttgctatga gagtagggtga cagtctgttt acacatccag
106621 ttaggttaca gttcactatg tacagagaaa cttttaggct gaatttaaaa tatgtaagga
106681 gaaaagttta agctaaactc attaacacct agaagagaga aggtgttcac tcgacaacta
106741 attatggagc acctactatg tgccaggaag tgctttgtgc aaaatagaag aacatgtaac
106801 ccaaatacag ggtgaaacta caaagaaatg gaagccataa atgaaactat gagagacata
106861 aaccaaataa aaaattctaa gccctgaac tgactgatgg accctccctc tggccaaggg
106921 cattccaaag ttaacctgaa aaattagttc aggccatgat aggaatgggt ggctaaacgt
106981 gcctcattgt actctcctcc tcttggaatt caggcacacac tgatcagcat tcacatcaac
107041 acagagatgt taagcccatt agaacagact ctttaagatt gataaagaaac atttacaatt
107101 gattctacac gaagcctgct acctggaggc ttcactctgca tgataaaaaa ctttgtttcc
107161 acaacccctt atcttaacct agcattcca agtttttaga taataattct ttttaagcagt
107221 tgccaatcag aaactctttg aatctgccta tgacctggaa gctccctcc cccaagttgt
107281 cccacctttc caaaacacaa ccactgtcca tcttacatgt attgactgat gtcttatgtc
107341 tccctaaaaat gcacaaaagc aagctgtacc ccaaccacct tgggtgcatg ttctcaggat
107401 ctcttggggc tgcacatcag gccactggtc actcatattt ggctcagaat aagtcttttc
107461 aaatattttca cagagtgtga ctcttttcat taacagacat gaaagccaga tacagatgta
107521 atatgcaagg agtaaaagct ccaaaaggag agagagtaat atatggagaa gtgaaaaaaa
107581 tcaaagaaat aaaagaagaa ctcttttaag ctgaaaaata cttcaatatc ttaagtctgt
107641 gaaaggaat taaatttttag gaccccaaac tcatttagcc aaagggaat gtcaagctgg
107701 gaactgtgtc atgcaaacct gcctccctcc tttggttcc aaataagatg gctatgatga
107761 aaagctacat gtctccacca tattttgtct acaaggaaat tcctagtga cgttaaaat
107821 ttcaccatgg caatgcaaat tgatagctta tctttacaag tgcagtcacc caccagatac
107881 aaatgcata ctgattgttc ccctgcctta ctttatctat gttctcttat gtaaaatgca
107941 gactccctgc atttttcctc tgccctcattt gtttatgtca tcttatgtta aaaaaaatgc
108001 agattcactg agccagagaa aggcataaat aactattttt ccctgcctg ctcttacatg
108061 aaaattgtgt acttctcaat atcccgccct tttcccttta aatttgagc cctcaaaatc
108121 accttcagag aaaggcatag tgtgtctcc cgggcagtcg tccttaactc tcgcaataa
108181 atttctctaaa atgattgaga cttgtctcgt catttttctc aatgacaagt cctaggtggg
108241 ggggaaaaaaa aaaaaggaaa aagatacacc taggtatata ctgaatacat tttaaaatgt
108301 ccaagagaca ggagaaacag agacagagag aaggaaagag atgcagagag tgaacgagag
108361 aggaagaaaag tgggggaggg agggagatag aaactctagg aaaagaaaca aactatcatt
108421 agattttctc tctgtcattc tgaaaatggg aagactgaag tgtatacaca ctttttttag
108481 atcgtcatct aagcctctca tattgtcatc aatgagggca ggggaatttg tttgagggga
108541 tgggtagggg gacaggacga caagcacaga ctcagatctt acactacaca tggaccttct
108601 gaggaatta attgaacaag ttcagctgaa caaaaattaa attagaatga atcaataaac
108661 tcctaaatac agcaaagaat atgcattata aaactacagc aaatataata gtaaacaaag
108721 aaacaaaaat atgagaggga tgttcacac tactaccact acttgttttg ggaattccag
108781 acatggaata agaaaagaat atcagtggtg tagataatgg aaagtaagag acaaaattat
108841 taacatttag ataatatgag cacattaact aaccagactc actaacaaca aacaaacaaa

FIGURE 4 (cont.'d)

108901	aacaagtgat	tagaaccaat	gaaagaattc	agtaagggac	caacacacag	taaatgtaag
108961	aaacaagtaa	tttacattta	tcccagcaat	atTTTTgcaa	acagaaaaat	atcctactca
109021	gaacagcaaa	tgctaaatgt	agagtagcta	gaaaggtgaa	ggacctgcat	gaagaaaact
109081	agaaattcta	tggaagtacg	ttgacacagg	atctagagag	gtggaaagac	acgctgtggt
109141	cctggatgga	aagactgaat	ctcagtaaaa	tgccaacaca	taacacagtt	atgtgaagtt
109201	caaagtaatt	ctcattatga	aaaactttaag	aaagaacagt	gagatatgta	acagacatta
109261	acatttatta	gaaagttatg	ataacccaaa	gctgggtgctg	gggtctcgag	tagaaaaata
109321	ggctaacaca	taaagtgcgg	aaacagaccc	agagactatg	tatacataat	acaaaactcg
109381	ccaacactta	tccagtgcct	tctatgtgcc	tactactatt	ctctgtggtt	tcatgggtta
109441	acctattatc	tcaaaccctt	aaaaggaagg	cactgttatt	tccctcattt	tacagatgag
109501	ggaagtgagg	cacagacaga	ttaaacaact	ttcacaggac	tggagaaagt	gccagtaagt
109561	gtgagttgag	cccagacact	cgaatccaga	gctcatgact	gccatcctat	gccagcttgt
109621	accgtgggta	tcatcatccc	tgtcatccaa	gtcaggagga	aagacatcat	ccctgtcatc
109681	caagttagga	acgaatgcta	ccgggagagt	tccacccagg	tatgtatgaa	aacacgtggc
109741	aggagtgggg	catggtggcg	cacgcctgta	gccccagcta	cttggggaggc	tgacgtggga
109801	agatggattg	agcctggggt	agtttgaggc	agcagtgaac	catgatcatg	ccactgcact
109861	ccagcctagg	aaacagagca	agactctgtc	tcaaaaaaaa	aaaaaaaggt	agatgaatga
109921	aagctctaaa	ctcaaagggg	aaattataaa	agtattagac	aaaattacgg	gggaagtatt
109981	tgtgtaacac	tgggatggaa	agggttttct	taagcaaagg	aggaaaccca	aaagttatag
110041	atgtaaacaa	tacatagtta	ataaaataaa	gaactaaaat	ctcctgtggc	aaaagcaaca
110101	gaagacaaat	aataaatgct	atacatatgt	aacaaacgga	tactatcctg	atatagaaag
110161	agctccttta	gattaataat	tgaagaaca	atagggaaaa	aaagcttata	aataggcaat
110221	gcagtgatgc	ttattagtgg	tcaggggagt	gcagactaaa	acaaccacaa	ggtccttaggg
110281	atttttagac	tgtcaaacaa	ggtcatcggg	tactgacaaa	tgtatggatg	ggcaaaagta
110341	tcttttcata	cacagctggg	aggaccgcaa	attacgatac	aattttgtga	aaggattttt
110401	gtcgggtattt	cttaagatga	aaaaatgctg	atttgttcca	gcaatctgag	ttctggaaat
110461	ggatctgcca	ttaattaaag	caccagtaca	tcaagatggt	tgtacaaggt	tggttctggc
110521	agcattgttt	gtactgcaat	acccaaaaca	aacaaacaca	tctacaaatg	ggaaatgaac
110581	tgaacgtcag	tgaatagggg	aatggctaag	taaattatgg	tgcattccca	gaaggcaaga
110641	aatagtagca	gtttaagaag	gggaaaaat	atgagatact	atttcacacg	caagaatgaa
110701	aacatctgaa	gatgcgaagt	gttgatgatg	caggggaaaca	gtgaatctca	gaaacagtta
110761	ctgggggtgc	tactggcaga	atgcctttgg	aaaacaatca	gcaatatcta	gaaagcttaa
110821	aaacacgtgg	tctgcaaccc	tgcaactcta	cttcttgga	tattccctac	agtaactctt
110881	ccatgagagc	acagagagat	gtgtgagaaa	gctcactgtc	gcttggtttg	caacagctag
110941	aaattaaaga	cagcccgctt	gccccatcagc	aggagagcgg	acgagcgcac	gggttattca
111001	gatactgata	tgccatgaag	aagttaactg	catgaaccac	atctatctgt	gtcaaccaga
111061	tcctcttcaa	tacttagtga	tgagtgaaaa	gtgcagggtca	cataatgatt	agattaaatt
111121	atatcgatta	acaaacacct	acactttgcc	atttactgct	gtgtgtgagt	gtgcatgtaa
111181	cacagacaga	tgtggtcaca	gtgggagagc	acaagctgtg	ggctatgacc	tgggtctgct
111241	tctccttctc	cctgcggtggc	tgagttagta	aggagggcct	gcaagaagcg	ccagctttct
111301	gacatagtgt	ggactattct	tagtcattgc	tttacttcca	aactctgac	tggaaagcctg
111361	agaaatcttc	tgagaaagag	gaactccaag	attgtgcaga	cagtgc aaaag	ttcagtgttt
111421	cctgaacgga	agcaaaggag	ggtttctgaa	aaggacagat	gagtggaaagg	aggaaagaaa
111481	aaatgattaa	atctaagaaa	gggggaaacg	atctcaccag	aagccccctg	ctgcaagatt
111541	atgataatgt	taagtagctc	ccagataatt	gggctagttt	gtgttatctt	agatgagtag
111601	atagcaaaagt	ctaattagag	ccccactaat	tcatactaaa	gtgttagtg	cttataacaa
111661	attaaatgaa	ttttatgggc	attttatctt	aaccagatt	cacaggccag	aagtgtctctg
111721	agaactggct	gcaggggctt	tgccataggt	gtctgaaaca	gggagggaag	ccaagggaaga
111781	agcatagaaa	caacagccct	tgggatggg	aggcagagct	caagcacaac	gtgtgcactg
111841	caccaggtat	ggaagtctgg	aaacacatca	tatgggtgct	gagctgagag	gcttgtgcac
111901	aaatactcta	aaacaaatca	cacatttata	aacccttaac	atgaccacac	gcacagcagg
111961	ttactctccc	acacttgatg	ctaattggcat	gtaagtttta	tttttgattt	ttcaattggg
112021	aaatagaata	tataaaatat	gtatggatat	gtatatatgc	acacacacac	tcacacatgc
112081	agaaaaatgt	acaaaacacc	tgtacgaaca	ccatccagg	aaaaaatcag	aacattgtcc
112141	gtaccctcac	ccccacctt	cccaatcaac	cctccttcca	tccccggtaa	tgaccatcct

FIGURE 4 (cont.'d)

112201	cggctttatg	ataatcattt	tcttgttatt	gtttaagggt	ccgctatgac	acacctccct
112261	aaacaatttc	attccaaagt	tatgaattgg	ccagacacgc	tcctggcttc	tttcttcaa
112321	cactgcgtca	gtgaggtttg	tccatgttag	cagcagtttg	ttgattttcc	ttgcagtgt
112381	gaattttcct	tgacaatttg	tctgttctac	tgtttggttg	acattgagtt	gttgccattt
112441	tttgcccatc	atgagtaatg	ctggtgtgag	tatccaggcg	cacatgcaca	caaatttgg
112501	tcccactata	ggatttctgg	gtcatagatt	ataatgtagc	ttcagtttta	tgacatattg
112561	ctaaattggt	ttccacggag	gtcttaccaa	cttgctctcc	tgccgggtgg	atatgagtg
112621	tcccagccct	ctggatcttc	tttaatactc	aggtgttggt	agttgttgaa	gtgttgccca
112681	tctgggggca	tatgtgtggt	agtagcagca	gttcactgtg	atcttctgat	ttccccgagt
112741	cctaatagaag	ttgaacacct	tttgatact	tgctgcttat	atcttgatca	gtaagtactc
112801	aaacttcttg	cccattttct	agtgaatgac	actccccctc	ttaaagattt	gtaggtcctt
112861	cacatactag	gaataattct	cgtcaatcac	tccatgactt	gccttcactc	tctctgggtg
112921	tctttcaatg	aacagagtgt	ccttatcttg	agggaggcaa	acttaccaat	cttttctttt
112981	gtgttttaata	tgttctgagt	cttggttgaa	aaatcctttt	agcttgagac	ctggaagaat
113041	aatcacctgt	agtctaaatg	tcttacagtt	ttgcctttta	cttttaagtc	taatcaaccc
113101	caagctgagt	ctcctgaatg	gcaagagggt	gagctctgatt	tcttctcctt	ctccttcagc
113161	cctccgtgct	ggctggcccc	tgctctcgag	atgcatgtcc	agtggccccg	tgccaccat
113221	cagccgagcc	ctccgtagca	gaccagtagc	ccacatacgt	gtggctgttt	gtgtttctt
113281	tattctgttt	caaggaatgt	ttttgatgaa	aagggggatg	aagctaagac	agttttgagg
113341	tggggcaatt	gtgttcttg	tgtgggattt	ctcacccctt	gacagcagtg	ggtggctggg
113401	cataggggaa	gaaggagcta	cagggttgag	ggatgctgtt	gcaacttaga	aaaattaaga
113461	aaaatgaaga	tattgctcag	ttatggcaag	tgtttgatga	aacagggacc	catacatggc
113521	tcgtgaaaac	tggttaaaga	tttttttttt	tttttttttt	gagacggagt	ctcgctctgt
113581	cgcccaggct	ggagtgcagt	ggtgcaatct	cggtcactg	caagctccgc	ctcccaggtt
113641	cacgccattc	tcttgccctc	gcctcccag	cagctgggac	tacaggcgcc	cgccaccacg
113701	cccggtctaat	ttttgtgatt	ttttagtaga	gacgggggtt	caccgtgtta	gccaggatgg
113761	tctcgatctc	ctgacctggt	gatccacca	cctcagcctc	ccaaatgggt	aaagattttt
113821	gaggagaaat	ttgtcaatgt	atactaataa	cttttactat	ttggtaat	catatctggg
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114001	agtgaatgat	gaggcatcca	tccaatggaa	tagtacatag	aaactagaat	aatgtttatg
114061	atgagatttt	gaaaatatgg	gaaaatgatt	tttgctacac	tgctaaaggg	cagcaaggag
114121	gatgcaaagt	ggtatatata	gcacaatccc	aaatttttaa	aagtgaataa	gacaaagtga
114181	aaacaattaa	acatgaattt	ttatgaaaaa	gttcataaaa	ttcataattc	atacagaaaa
114241	taggtatttt	tctggctcta	tattattttc	cttcttttao	ttttttgagt	taaaaaaaca
114301	accagatat	actacatatt	ccttgtaaga	agttcaacta	ttgagggata	tgtagaaaag
114361	tatcacaata	ttggctccca	aaggccctc	cacagcccag	gtaacttcac	tgtccatgta
114421	gaatgattcc	ttccactttc	ttcccttgga	aggaggcaca	gactcaaatg	tttccagggg
114481	ccaaagcagg	aaatgaaatg	aaagaaaacc	ttgatataga	caacagacaa	gtgtggactg
114541	gggaagcctg	aagaatatct	ctgtttactc	ataagtcaat	aatgatccat	caaacacttg
114601	tagaggctgg	atacagccca	tcagccacc	atttccagag	gagcactctg	taatgtgtta
114661	ttatcttcca	aaaagcttta	ctgagataca	tttacatacc	attaaattca	ccccttaaaa
114721	atatgctatc	aaaagatttt	aatatatttg	cagagttgta	tgtgtaacca	tcattataac
114781	ccaattctga	aataatctca	tccccagagg	acacctcgaa	cccattaaca	ttcactcctt
114841	gtttcccttc	cccaactcct	agtgttaggc	aactactcac	ctactaacct	gactctgtgg
114901	gtttgcctat	tctggacatt	tcatacagat	agaatcacac	aatatggggg	cttccgtaag
114961	tgagttttcc	atcttagcata	tttttgaaat	tcattcagtg	tttggcatct	atctgtagtt
115021	catttctttt	cttttctttt	ctttttttga	aatggagttc	tgctctgtca	cccaggctgg
115081	agtgcagtgg	cgggactag	gtcactgca	acctccgcct	cccgggttca	agtgttctc
115141	ctgcttagc	ctcccaagca	gctgggatta	caggcgtgca	ccaacatgcc	cggctaattt
115201	ttgtattttt	gtagacatgg	ggtttcacca	tggtggccag	gttgggtctc	aactcctgac
115261	ctcaagtgat	ctgcccgtct	caacctccca	aagtgttagg	attacaggtg	tgagcctccg
115321	cgcttggcat	tcatttcttt	ttgatgccaa	aaaatatccc	attgtatgga	taaaactatat
115381	tttgtttatt	catttctcag	ttaatggaat	ttaggttggt	tctacttttt	gactattgtg
115441	aacaatgggtg	ctataaatat	gtgtgtacaa	gttttgata	gacatgtggt	ttcaatatcc

FIGURE 4 (cont.'d)

115501	ttgggtagag	gcctaggagt	agaattgctg	ggcatatttg	tagctggggt	tcagattttg
115561	aggaaccact	aaactgtttt	ctgaagtggc	tgcacatct	tacattccgg	tagcagcatc
115621	agggttccag	tttctccaca	tccttggcag	cacttggtac	tatctgtctt	ttttattcta
115681	accatttttag	tggttagaat	tgtatcttgt	ggttttgatt	tgaaatttcc	tgatgattaa
115741	taatgttgag	catattttca	cgtgcttatt	ggagattcac	aaattttctc	tggagaacta
115801	tttaattaaa	tccttttgcta	attttttaa	gggggttttt	gtacagaata	ttttaaaatt
115861	gagttgtcag	agttctttat	atattctgga	tacaagtccc	ttatcagaca	tatgatttag
115921	atattttctc	cattctgtgg	attgtctttt	cactttattg	atgatgtcct	ttgaagcata
115981	gatcttttac	attttaaatga	catctaactt	gtctactttc	ttttgctgcc	tgtgctcttg
116041	gtgccatata	taagagactt	tgccgaacct	aagattatga	agacttactt	gtatgttttc
116101	ttccaagagt	ggtatgttgt	tagcccttac	tttttagatc	atcatccatt	ttgaattaat
116161	ttttaaattt	atctagcagc	gttattgaaa	tataatgcac	atactgtaaa	atttatccat
116221	ttaaagtgtt	caattcaagg	atgttttagta	ttaatTTTTA	cacaatggac	aaccatcagt
116281	tttagaacat	tttcatcccc	ggcaaaagga	acactgtatc	cttttagctgt	cactcccatg
116341	accacttcct	cattccctgc	ccctaggcaa	ccagtaatct	actttatatc	tgtacagatt
116401	tttcttttcc	agaaatttca	tataaaaagga	atcatacaat	atatgatctt	ttgtgactgg
116461	tttcttttcc	ttagcataat	gtttttgaga	ttcatccatg	ttgtaacaag	tgtcagtatt
116521	tcattcttct	ttcatgggtca	aatttatatag	atatactata	ttttatccat	tcattccatta
116581	atggacgttt	gggttggtgta	cactttttga	tagttacagg	tcagtctgct	ataatcatgc
116641	atgtacaagt	ttttgtgtgg	gcatatgttt	ccatttctgt	tgggaatatg	cttaagagtg
116701	gaaatgctgt	catattgtaa	ctctctgttg	aacagtcagg	agctagcaga	ctgtttccca
116761	agcagctgtg	ccatttttaca	ttcccaccag	cagtgtatga	gggttctgat	ttctccacat
116821	ccttggtcaac	acttggttctt	gtcggatttt	tttattctag	ccatcctagt	atcaagtggg
116881	atctcattgt	ggtgttgatt	tgcatttcct	agatgactaa	tgggtccttg	gagaaatatc
116941	tattcagatc	ctcactcatt	tttttcattt	tttaattgga	ctatttgcct	ttattgagtt
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117121	gtttgtaaat	ttgatgacat	cactttatca	ctttatctat	ttttcttttg	ttgctgatgc
117181	ttttggtgtc	atatcaagag	tcctttgtca	aatccaaagt	catgaagggt	tactcctgtg
117241	ttttctttaa	agagttttat	agtttttagct	cttacattta	ggtagggtatt	tgactcattt
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117421	gctgcttctg	tcaaaaatta	attggccata	agtgtaaagg	cttatttctg	gactctcaag
117481	tctattttcat	tgatctatat	atctatcctt	atgcogatat	cacattgtct	tgaatactat
117541	agctgtgtag	taattttgat	attgagaagt	gcaagtcctc	catctttggt	ttctttttat
117601	caagattgtt	ttggctattc	tgggtccctt	ccatttccat	atgaatttgc	agaattgaca
117661	gcttgtcaat	ttctgcaaag	aaatcagcta	gaattttgat	aagggttggt	ttgaacgtgt
117721	acatttaattt	gtgggggtatt	gccattttta	caaaattaag	tcctctgatt	catgaacatg
117781	aaatgtcttt	caacctattt	agatcttctt	taataatggt	aaacaatggt	ttgtagtttc
117841	attgtacaag	tctcagacta	ctttgtttaa	tttattcata	aatgtttact	gtttttgatg
117901	ctattgtaaa	ttgaactttt	ctttactttt	atttcacata	gttggttggt	aatgtataga
117961	aaaacaattg	attatcttgt	atcttgcaat	cttgggtggt	tattagttct	aataatttct
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118081	ttttacttac	tgtactccat	tgtgggtgcc	tttacttatc	tttttattcc	ctaactgagc
118141	tggctagacc	ctccagtaca	atgttgaaata	gaagtagcaa	aagtgaacat	ctttatcctg
118201	tttctggatt	cagcctttca	tcattaagta	taatgttaac	tgtgaatttt	ctttttttgt
118261	gtatgtgggg	ggacggagtc	ttgcttgtca	ccatgctgga	gtgcagtggc	atgatctcag
118321	ctcactgcaa	cctccgcctt	ctgggttcaa	gtgattctcc	tgccctcagc	tcttgagtag
118381	ctgggactac	aggcgcagtc	caccacacac	agctactttt	tgtatttttag	tatagacggg
118441	gtttccaccat	gttggccagg	atgggtctcaa	tctcttgaca	tcgtgatcca	cccgccttgg
118501	cctcccaaag	tgctgggatt	acagggtgta	accaccacgc	ccagccta	tgtgaatttt
118561	caaacccttta	tcagggttgag	gacattttct	tcaattccta	ttttttgagt	gttttatcat
118621	gaatgggtgt	tggattttgt	caaatgcctt	ttttgtatgt	ctattgaaat	gattatgtac
118681	tttggtttgt	tttggttattt	actctattga	tatgggtgaat	tcaattaatt	gatttttggg
118741	tgttaaacca	actttgcatt	cctgggctaa	atccacatg	ttcatattgt	ttaatgcctt

FIGURE 4 (cont.'d)

118801	ttatatactt	ctggggttagg	tttgctagta	tttcggtgaa	aatggtttata	tctatattgc
118861	taagggatat	tggtttatag	ttttcttggt	atgccttttag	ttttggtata	atatgggtat
118921	gagacaatga	attgggaagt	gttccttcta	tttcttaaaa	gagtttatgc	aagatcagta
118981	ttaattcttt	aaatgtttga	tagaattagc	cagtgaagct	atctgggtct	gggcttctat
119041	ttgtgggaaa	ttttagaatt	agtaattcaa	tctctttggt	tgtgattggt	ttattcagat
119101	taactatttc	ttcatgagtc	agttttggca	gtttgcgctc	ttctaggaat	ttgcgcattt
119161	catttaacta	gtttgttggc	atgcaattgt	tcatagtatt	cttttttatt	aattttaatt
119221	tctgtattga	ttttccctca	ttttatgagt	ctcatttttc	cttttttatt	cattttaatt
119281	tctgtattga	ttttctctta	ttgctcattt	taatggtttg	aatcctctgg	tcagttggct
119341	gaagagttgt	caattttatt	gctgatcatg	tatcactttt	ataattgaat	tggtataaga
119401	agacataaga	agtaagaggc	aacccttaca	atggagaaca	ttaaggtaca	ctcaagcttt
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119641	tttcatacca	tgtctttgag	atagaagaaa	ccatggcccc	gtggccactc	gatctgatgt
119701	cataactcac	cgatattggt	tttgccgtgt	ttccagttct	ttacgtcggg	gttgcttgag
119761	aatgtgaatt	tggtcatctc	gggccaactt	tgctgtaaag	aaagaacaac	atgagaggag
119821	cctgaggaag	aacaataaca	atgcccaatg	ccaagtgttc	aggcttccct	cagatgccct
119881	gccccggccg	agtgccttat	gtgcatgacc	tcatttgagc	ctcagagcac	ttccccaatt
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120121	tgcacccatt	aactcgtcat	ttacattagt	tatatctcct	aatgctatcc	ctccccctta
120181	ccccccaccc	atgacagacc	ttggtgtgtg	atgttcccc	tcctgtgtcc	aagtgttctc
120241	attgttcaat	tcccacctat	gagtgagaac	atgtagtggt	tggttttttg	tccttgcgat
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120421	tctatcattg	atggacattt	gggttggttc	caagtctttg	ctatttgtgaa	tagtgctgca
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120661	cccatttctc	cacaccctct	ccagcacctg	ttgtttcctg	actttttaat	gattgccatt
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120781	gatgatgagc	attttttcat	gtgtctgttg	gctgcataaa	cgtcttcttt	tgagaaagt
120841	ctgttcatat	ccttcgcccc	ctttttgatg	gggttggttg	tttttttctt	gtaaaattgt
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121141	tctagggttt	tgatggtttt	aggtctaaca	tttaagtctt	taatccacct	tgaatttaatt
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121381	tggtctatat	ctctgttttg	gtaccagtac	catgctgttt	tggttactgt	agccttgtag
121441	tatagtttga	agtcaggtag	catgatgcct	ccagctttgt	tcttttggct	taggattgtc
121501	ttggcaatgc	gggtctcttt	ttggttccat	atgaacttta	acgtagattt	ttccaattct
121561	gagaagaaa	tcattggtag	tttgatgggg	atgacattga	atctataaat	taccttgggg
121621	gtatggccat	ttttatgata	ttcattcttc	ctatccatga	gcattgggat	ttcttccatt
121681	tgtttggtgc	ttcctttatt	tcgttgagca	gtgatttgta	gttctccttg	aagaggtcct
121741	tcacatccct	tgtaagttgg	attcttaggt	attttattct	ctttgtagca	attgtgaatg
121801	ggagttcact	cctgatttgg	ctctctgttt	gtctgttatt	ggtgtataag	aatgcttggt
121861	attcttgcac	attgattttg	tatcctgaga	ctttgctgaa	gttgccctatc	agctttaagg
121921	agattttggg	ctgagacaat	gggtttttct	aaatatacaa	tcatgtcatc	tggaaacagg
121981	gacaatttga	cttctctttt	tcctaattaa	atacccttta	tttctttctc	ctgcctgatt
122041	gccctggcca	gaacttccaa	cactatgttg	aataggagtg	gtgagagagg	gcacccctgt

FIGURE 4 (cont.'d)

122101	cttgtgccag	ttttcaaagg	gaatgcttcc	agtttttggc	cattcagtat	gatattgggt
122161	gtgggtttgt	cataaatagc	tcttattatt	ttgagatacg	tcccatcaat	acctaattta
122221	ttgagagttt	ttagcatgaa	tgggtgttga	attttgtcaa	aggccttttc	tgcattctatt
122281	gagataatca	tgtgggtttt	gtccttgggt	ctgtttatat	gctggattac	atttattgat
122341	ttgtgtatgt	tgaaccagct	ttgcatccca	gggatgatgc	ccacttgatc	ctggtggata
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122461	atgttcatca	gggatattgg	tctaaaattg	tttttttgt	gtgtgtatct	gccaggcctt
122521	ggtatcagga	tgatgctggc	ctcataaaat	gagttaggga	ggattccctc	tttttctatt
122581	gattggaata	gtttcagaag	gaatggtacc	agctcctcct	tgtacctctg	gtagaattcg
122641	gctgtgaatc	catctgggoc	tgaacttttc	tgggttggtg	ggctgttaat	tattgcctca
122701	atttcagagc	ctgttattgg	tctattcagg	gattcaactt	cttcctgggt	tagtcttggg
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122881	cctttatcac	tttttattgc	gtctaattga	ttcttctctt	cttttttttt	tctttttttt
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123001	gtggagggaa	ggtcagcaga	taaacaagtc	aacaaaggtc	tctgggtttc	ctaggcagag
123061	gaccctgcgg	ccatccgcag	tgtttgtgtc	cctgggtact	tgagattagg	gagtggtgat
123121	gactcttaag	gagcctgctg	ccttcaagca	tctgtttaac	aaagcacatc	ttgcactgcc
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123301	gaaaagtctc	ccatgtctac	ctctttctac	acagacacag	caaccatccg	atttctcaat
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124321	gcggttagga	tctggatatt	agcctgttct	acacagtga	tctccgtctt	taccatttta
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124801	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
124861	gattgggtat	ggttagtagt	attgaggggc	atgtgggtta	attaggtttt	gtatagatta
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125281	ttttcttctt	tattagtctt	gctagcagtc	tatcaatttt	gttgatcctt	tcaaaaaatc
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FIGURE 4 (cont.'d)

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FIGURE 4 (cont.'d)

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128881	cacagctctt	atgtttctaa	gtccatttca	ttgtttcatg	gagaaatgtg	tgacgatgac
128941	acaacccggg	ttcctgtcgt	gcctacacag	aggattgaga	atgagctcca	ttctaaaaga
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FIGURE 4 (cont.'d)

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135121	ccaggacaca	ggcggtctg	aggcaacagc	catagcttct	ggagggcttt	tgtctctgca
135181	gcaatggatg	gcagacagga	agttgggatg	agaggctcag	gcattgcattc	acgcattctg
135241	atgaccagca	ggtttgga	gccccggact	cgatgccctc	caaggcatgt	tcttttttat

FIGURE 4 (cont.'d)

135301 tttgaggtgg agtctcactg tgttgctcag gctggagtgc agtggctcga tctcggtcga
135361 ctgcaacctc cacttccagg gttcaagtga ttctcctgcc tcagtctccc aagtagctgg
135421 gactacaggc acctgccacc acatctgggtt aagttttgta ttttcagtag agacagggtt
135481 tcaccatggt ggccaggctg gtctcaaact cctgacctca agtgatccac ctgcctcggg
135541 ctcccaaagt gctgggatta caggcatgag ccactgtgcc tggcccctgc aaggcacttt
135601 ctaagccaga ttcatacaacc cttgaacttt atccctggcg gcagaacctc gagttctcag
135661 catgatggca aagtggaagg ggcgaggggt atcatccttt gtgcgagcgc aggcacccc
135721 attccatgcc ctgcctccaa gctgccagga ggacctctgg agggcttccct aagaggaatg
135781 ggaacttgag tgttttccac aaacctcctg gctctgaata ccgtgagcag tttggggtgg
135841 ctgacgctga ggccagacgc ttgtggctcag aaagcggaag cttcctccct gtgctctgta
135901 gtctaggcca gaggccctag gaacagtttc tgatgacaga ggagccaggc ccatgtgggtg
135961 ggatgacatg tcttgggtcc agccacatgt ggaccagcct cggccccacg acaatgcccc
136021 tcctgcaggg agagtatcag cctcatctgc cacctctgag aaagccttcc tgccacagct
136081 tgtcctcagg agagcagggc cacacacaag gcctcgccca tcatggacag ggtgggcagg
136141 ttctgatggg acaggagtct cagcatctca ggggctcggg cccatctgga ggagcagagt
136201 gggggctgag tggcccagga ctggatacgc gtcgggcttg cccacgcca ggcctgcat
136261 gccacagga tttacagagg ccttagctgc aggttgtgag ccaagacaga gattcctgat
136321 ccaccgagg agtggggaga gggcagtgag gggtagaagg ctcggtgggc cctggggtct
136381 ggagctctga attcacatcc cagcttcagg caagtagctg gatggccttg gcacattgct
136441 tcattctctg aagctgtttc ttcatctacc caaaggagat accctcact tgcaggacca
136501 ttgagaaaat gaaatgacac catcctgggt ggctccttt ctccagaggc acaggccacc
136561 ggttgtgtgc atcagaacca ccagtcccc ttctgaatc cagggggttg cagggcacca
136621 ggccccacac cgctgtgag ctagcatggg cccctgcgtc acggccactt cgtgactaca
136681 tgtgccaatc cgagtaactg gagcacacat gggaggagga aactgaacct gtgacctcaa
136741 actccttcac tcaaagccca gaaggaactc ctgaaaggct ggagacaggg ctgtgaggac
136801 agaggagag tgggaggcat tctgaatgct ggtggggcag gcagagcaag tctgtgtgag
136861 gtgaggactg agggcgggcc accagaggcc cgggctgggt ctgagtgtgg ctgctgcagg
136921 ggaagtagct ttcctatggc tctgaggggc tggagagggg ggaaggtgtc cccaggggat
136981 agatgacagg aaagctgggg tggggtggga ggagctaaca gggacactct catgggaggg
137041 aggtcccag taccttgagc taagagggga gggagatggg ctgaggaggc attccaggac
137101 tgggcaggtc ccacaggag ggcccgatgt ctacctgggg gtgacgacct acacgaagag
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137221 agtcacaggg gactgggaca ctctggccc cctgccttac ctacacctgc aggcacctgg
137281 tggagagccc ctgagtttca ctgggggtga aatcactagg cagatttaca aggactccat
137341 ctgccactgc acagggactt ccacagcagg agggggccag gcctgcagtc tggctggtct
137401 atggccagcc cagccacttt cctgggtgctg gcttcaagcc tgaatatgat aagaggtgaa
137461 caaggggcag agggctccag ccttgaccca actcaggag taaaagacaa agcttgatgg
137521 ctgtggttct aacatcccag gggccactaa tggagaagt acagataaag gcctccttcc
137581 aggaaaatac cagggtcaca tgtgtcaaac tgcaaaatat ctccggaagg tttgtggaac
137641 tacaatggcc accttccctc ctctctctct ggccaagtac actgggctga tgctatattt
137701 gtctatttgc tgtgacacat taaattctca ggtgacacac tgaattatgg tgggcactat
137761 caacagtggg cccccccaa caggccctca ggaagcactg ggctgggaa tggccgagcg
137821 agtgattatc ctgctttaca gatagaaact gaggtcaga gagcaatggg ggcctcaaga
137881 tcagaacctc cacctgtgtg atggccaagc ccaggttcct cccacagttc cccaaggcca
137941 catcttgaga aaagccctga accggaagct agaaggccca gctttgagcc ctggtttgta
138001 ccctggatgg agtgtaaagg ggcaatgtgg agtggcatgg aaggacaggg aaaagcttca
138061 taagagggtg tttcaggcag ctttttagggg ctgatcagat ttcagagggc agatgagtag
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138181 ggattcacac gtgggaggag gaaggctgga cacagtttct ggggacagaa gtgggtggcg
138241 tgggtggtgca gatgctggag agaacaagg gaaacctgca actcaccggc ctcatctcac
138301 aagggggcac tttgctgatt ttgcttgggt cttttaactt tttattggat atgtagtttt
138361 aaagcttttg aatatttcgg caaagagtca gttggtcagt tttcatgtga gcttctatc
138421 agcatttttg gaaagttttc atctgtcttt catcagatct ctgctgttgc tgggacaggg
138481 agacggatct ctctgcggaa gcaaggatgt gtgccccacc cccagactac ccatcttggg
138541 gggggactaa tgaggggctg tgggaggagg aagctgtaga gcagagagga agattggggg

FIGURE 4 (cont.'d)

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138601 ccagacaaaa cagagactcg ggatgagaga gggggaggct atggggaaga gctgaggaaa
138661 acaagggacg gagagagggg ttggggtagt ggatagggag accaaggggc agagaagggg
138721 gaaaaatgtg gacagagagc cggagattga gggagcagag aaggggcctc tgagaggtag
138781 ctggaagaca gagtgtagag gaaaattcag agcaaaaaag aaggagagat tgtagggtag
138841 agagcagaaa cggggggcat ttagggaaact gggagcaggg gaaggaagag gaggcagaag
138901 agggggcaga atgtagggaa aagatggctc agagggggag actgggagat gagagacgga
138961 ttgaggggtca taccaaagaa atatttatgc tccactaata tattccatt cacaagaagg
139021 aggtattcta gaattaattt ttcattgaatg taagaatact cactgactta agaagcatga
139081 atcattataa cacttttcta cacttggtga acatattcaa gtatcatata ttaaaccacca
139141 cgctattgcc cttagctttc ttaaaagtac cagcacagaa tgaaatgggc caactaagat
139201 ttctcagaaa tcttcagatc tgttacagtt atcgtatccg atctgaatta ctttaaattt
139261 acagagttaa agaaataaat caacttgtaa aatttgcta gacttgggtt agcctctgga
139321 aacagggcca ttctgtgtag gatcccggtt ttctccagca gacagtggag agccaaggaa
139381 gacacaaccg tttataggat aatcccacct gcgaaggact tgattcccag tcctgactga
139441 atcactatgc ggaactctga tgagaataac aagggacctg tgactcactt tatcaaggaa
139501 aaaatcagtc ctgtccatta tttgactgaa ctatgccctg gaggaggggg gtgttgacct
139561 gccataaact tggaaatgat taaattgtgt ggaaatacct ttattgttat ttttatcgtt
139621 actactgtta acaatacaga ttttaacact ttccctgta aaatgggata acctgtctt
139681 ctcagcaagt acttctctca gggtttctct ttaccttta cccaaaaagg atgattgtct
139741 ttacagatac caagctggga gaatgaggaa gtatgtctgg gctgggcaag agaaagtgtt
139801 gagtaacttt gcatcaacag gaactttctc aaaagctgat ttttcaagg aaactttcag
139861 ccttagctgg ttccccaccc tgcggtagcc cccaccccca accacccccc gccccacccc
139921 tgacttatag ccctctcaac ccaatggaaa tgtgacatgc aaatctctcc tgaatttgc
139981 ccctgggatt ccggtgagg tgtttaatta taatgtcatt tgaatgactt ctgaggtag
140041 gggaagacag accgagagag ggagatagtg gacaaaacag tgccttcaact tgcctccga
140101 agagcccgtc atggccacgt tatcatgtcc cctgcaggag gaaagcacac acggggtgcc
140161 cgtgctgtgc agtgtgagca caccaatggc ctgtgcttct agaaccttat gatgtgtgga
140221 ggagaatggg gaggaggaag cacttcaaaa ggggaagtag cctgtacctt gtccttctcc
140281 cccaggtgtg gggaatccat gaaataatgg aagtaaataa aggtgcgtca gaaatggcag
140341 aggggtgcat caccctaaat ggacgacaca ttaactccag ggcaccgcag toctcagggt
140401 cagttccccg actggggcaa ctaagcaact gaaggttgct cttgtactca acacctaact
140461 cttcttgaag ggagctcaag ccaggatgct agtgaacttg gctgagggcc atgtcgtgct
140521 acagcgaggg tatgggctcc tggataggaa tcgagcccat ggagagcttg gaatgccgaa
140581 aaagagtagt ttttacttac tttagctctc gcacacctaa aacacaaatt ttatccaaga
140641 gtaatcagtt gaaacatgaa cttgcccgtt gtatttgtcc attatgagca atttcacaag
140701 gtttgatcaa ataataaact aaatggtag aaggcagctt ggtaaagtct aaatctttt
140761 ggtccagtta ggagctgggg tgggggtgga gggaaactgat attccctgcg cacctgcagt
140821 atgtctggga ctattaccag tcatttacgg agcgttctc ctgtgccagg tactggatta
140881 ggcacttcat taaaggctca gtgagaactg cgacctgcc atgctcatgg aaaagagtcg
140941 tggggctgga attcaggccc agatcagcat taggaactag cttccaaatg ctgagggtc
141001 cctcgcgtcc tcacacctag cgtggaagtg ttccctggtg tacattctgc tgggagggag
141061 tgcagccccc ccathtagga aaagcctctc ctggcctggg ttctgttctt tccctttaat
141121 ttctcttggg gactgtcctg agaattgtaag ctgcccagggt gccgtctgag ccaccagatg
141181 ggcctgggct caccatgac tcatggacca gactgaagcc aacctccat tttcagctgg
141241 ggaaactgag gccagacag acggtagagt gagctggtgg tcatgtctgg acagaactca
141301 ggcctctgga ccgctgacg tgcaccttc cccacggctc acagctggct gctccgaggt
141361 gccctcagag ttctgtgagc atgactcatc tgcctctccc tccctgtgag acctgcagaa
141421 ggagcctaag gaagaggtgg cacaagaaac gcggccaggt gaagggggct cggagacctc
141481 ggagcccaga tcttgaagtg gaggggaaac cttgggcctt ctctcccag ggaagacgcc
141541 ttgcaggcgg cacgcgggaa gtctccgttt ccgacagggg tcgcgccgc cgcgaggggt
141601 cctggacgct tgcccaccag ggtaccacc ggccactggg agcccagggc acgcccacc
141661 gcagttctgc cctccctgac agggctcctg acaccccag tctgtccgg gccgcccga
141721 cgggcccctc gcgccccgc agggcctct gccgtccaaa ccgggtcccg gacgcacctc
141781 agcccgcgct ccacccgtgc cccgcccgc ctcaccgcgc cacgctcgaa gtcgtgttag
141841 aagggttgt ccagcaggtg cttctcgtg cagcccgcg agcccacgag gctgaggtag

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FIGURE 4 (cont.'d)

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141901 atgtagtcgt cagtgtcttc accacggggt gaagtacggt cennnnnnnn nnnnnnnnnn
141961 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
142021 nnnnnnnnnn nnnnnnnnnn nntttttggg ttgttgttgt ctctttgttt ttgcgagcgg
142081 tccttccgcc ccgtggtgaa gacaagtggg cgctctgcc tggccatccc atctgggagg
142141 tgaggagtgc ctctgcccgg ccaccccgctc tgggaagtga ggagcgtgtc taccagcca
142201 ccacgtctgg gaggtgagga gcgcttctgc ctggccgccc catctgggaa gtgaggagcg
142261 cctctatctg gccacccctt ctgggaagtg aggagtgcct ctgcccggcc gccaccccg
142321 ctcgaggcg aggagcacct ctgcccggcc accaccccat ctgagaggca aggaccacct
142381 ctgcctggcc gccatcctgt ctgggaggcg aggagcacct ctgcccagcc gccgcccac
142441 ctaggagggtg aggagcgct ctggccagcc gccccacctg ggaggcgagg agcgctctg
142501 cctggccgcc ccctctggga ggtgaggagc gcctctgccc agccaccacc ccctctggga
142561 agtgaggagc gtctctgcca ggccgccccg tctgggaagt gtaccaaca gctccgaaga
142621 gacagcgacc attgagaacg ggccatgatg acgatggcgg ttttgtcaaa aagaaaaggg
142681 ggaaatgtgg ggaaaagaaa gagagatcag attgttactg tgtctgtgta gaaagaagg
142741 gacataggag acaccatttt gttctgtact aagaaaaatt cttctgcctt gggatgctgt
142801 taatgtacaa ccttaccccc aaccccgctg tcgctgaaac atgtgctgtg tcaactcagg
142861 gttaaatgga ttaagggtgg tgcaagatgt gctttgttaa acagatgctt gaaggcagca
142921 cgctcattaa ggtcatcac cactccctaa tctcaagtac ccagggacac aaactctgt
142981 gaaggctgca gggacctctg cctaggaaaa ccagagacct ttgttcacct gtttatctgc
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143101 aagaatgatc aataaatact aaaaaaacia attaatat taaataaatt tcatatggaa
143161 ccaaaaaaga gcctgcattg ccaagtcaat ctttaagcaa aggaacaaag ctggaggcat
143221 cacactacct gacttcaaac tatactacaa ggctacagta accaaaacag cacggtactg
143281 gtacaaaaac agaggtatag accaatggaa cagaacagag ccttcagtaa taatgccaca
143341 tatgtacaac tatctgatct ttgacaaacc tgacaaaaac aagaaatggg gaaggatttc
143401 cctatttcat aaatgggtgt gggaaaaactg gctagccaat aaatgggtgt gggaaaaactg
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143521 ttcaagatgg attaaagact tacatgttag acctaaaacc ataaaaacc tagaagaaaa
143581 cctaggcaat accattcagg acataggcat gggcaaggac ttcatgccta aaacacaaaa
143641 agcaatggca atgaaagcca aaattgacaa atgggatcta attaaactaa agagcttctg
143701 cacagcaaaa gaaactacca tcagagtga caggcaaccc acagaatggg agaaaaat
143761 tgcaatctac tcatctgaca aagggtcaat atccagactc tacaatgaac tcaaacaaat
143821 ttacaagaaa aaaacaaaca accccatcaa aatgtgggccc aaggaaaaga acagacactt
143881 ctcaaaagaa ggcatttatg cagccaaaag acacatgaaa aaatgctcat catcattggc
143941 catcagaaa atgcaaatca aaaccacaat gagataccat ctcacaccag ttagaatggg
144001 gatcggttaa aagtcaggaa acaacagggt ctggagagga tatggagaaa taggaatact
144061 tttacactgt tgggtgggact gtaaaactagt tcaaccattg tggaagtcag tgtggcgatt
144121 cctcagggat ctagaactag aaataccatt tgaccagca atcccattac tgggtatata
144181 cccaaagtat tataaatcat gctgctataa agacacatgc acacatatgt ttattgtggc
144241 actattcaca agagcaaaga cttggaacca acccaaagt ccaacaatga tagactggat
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144361 catgtccttt gtagggacat ggatgaagct agaaaccatc attctcagca aactattgca
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144481 acatggacac aggaagggga acatcacaca ctggagcctg ctgtggggtg ggggggtggg
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144781 taacattaaa cacaaatacc accatttata agtatgatt ttgatatcat cggttgtgta
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144961 aaatcaatga aacacagtca caactatgtc tgtctaggaa taaagcagc taattagatt
145021 ctattcttaa ggaacaagaa gagggcagg aagaatttga ttatggcaga attctgacca
145081 taatcaataa ctgttttctc ttttttctcc atgttgtcgg gtggttcata cctgactttc
145141 atcatttcca atgattcctg tttgttttgt ttataaattt caaaatcatc atgaaaagtt

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FIGURE 4 (cont.'d)

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145201 tcaactgaatg aaaacctgaa aattgggaaa taaacatttt tctgcaaaaa aaaaaaaaca
145261 atgaacactg acttctccta tttctcaaa gcatctcaaa gccatatgag gattaccaca
145321 aacttgacagg tgagaaaatt ctttgcaatg taagaagtgc catgcaaatt agttgatgct
145381 attataatta gtctcaggga tcaaaaatgc ttgaacccta aatctaacac ttcaaaggaa
145441 agcattatatt ttcattcatt ttacaagtta cacctccctt cttccccaca tctttgttta
145501 gaatctggac cctgaagtta gaggaccaag attcaaatec cagcctcatc agtactagct
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145621 gggatgagaa taatatctac ccaaataagg tgcccaatgc agtgcccaac agcatgaagc
145681 ccaataaagg ttagttaaca tcacatccat aattgacacc tttaggtatt agattttcat
145741 catcccagaa cattttcctt ctttaagcct ttttctttct aagtggcact ttcttgata
145801 ctgattgcac tcctcacaaa cttgaaacgt tcaaacacac aagatgccat ttaggagaca
145861 ttggaacttg ggtttccttc tctgtaaaac tgagtaatga cagtcacctc ccagggctgt
145921 tgtaagaatg aatgagctag agtatgtaaa atatcttagc acagagtgtc taagaaatta
145981 ttagttccag ccaagcgtgg tggctcacgc ctgtaatccc agcacttagg gaggccaagg
146041 caggcggctc atctggggtc aggagttcaa gaccacctgg tcaacatggt gaaacccctg
146101 ctctactaaa aatacaaaaa ttagccaggc gtgggtggcat gtgcatgtaa tcccagctac
146161 tcaggaggct gagacaggag aatcacttga acccaggagg tggagggttg agtgagccga
146221 gatcgtgcca ttgcaactca gctggggcaa caagagtga actctgtctc aaaaaaaaaa
146281 aaaaaaaaaa gaagaagaag aagaagaaga gaaagaaga gagagagaga aagaaagaaa
146341 gaaagaaga aagaagaaga gaaagaaga aaaagaaga aagaaagaa agaaagaagg
146401 aaagagacag aaagaagaa ggaagaaga aaagaagaa agaaagaaag aaagaagaa
146461 agaaagaag aaagaagaa ggaagaaga aaagaagaa agaaaaaag aaagaagaa
146521 agaaaaagaa agaaagagag aaagagaaga aaagaagaa agaaaggaga gacagaacga
146581 aggaagaag gaaggaatta tttccctttt tcccaccac gcctcaccac aaacctgtgt
146641 gtggggataa catgtaaaag tgaacaaaac tgagaagatc acatcgcata tgactcagc
146701 ctctagtggg agacacaggc aataaacagg gcataaaggg aggagaataa ccagtggctc tttcatgcag
146761 agtgcaatta gctcccgcga gggagagacc cgcactcaga ctgggatgga attatttatt
146821 agaatcagg tagacctctg gtagaggtgc tctgtcgtga ttatctaata tgggaggaa
146881 ttatgctgtg tcagttagga gatgagtatg agaattgggtc ttcttctga aaaaaaaga
146941 caatgtcaga cgggtttcaa tagtcaagaa gttccaatga gaagaatgct ccttaacttc
147001 attgagttca cactaatcac aaatacatca agcctatttg agtcttgtgt gtgtcatgga
147061 ttgaagtgt tctttccact tagtcaagaa gttccaatga gaagaatgct ccttaacttc
147121 ctaagtgcag cagagtgtt gaactgagcc atggatggta aatctactta agaaagcaca
147181 tgccatggaa agatagcatt ggtgcctctg cctacttctg atggcacagc cttgcaggaa
147241 gggaaagaa ccaagaggca aaagcctggt cttgttctga aaggcacaag gaggtggaag
147301 attaggggaa actcacccaa aaatgactca gctctgaact cagactcaag aagccacaat
147361 aagcaacatg aatggaactg gagggaaata aaccaggcgt agaaacacaa atgttgcata
147421 ttcttactca tgtgggaact aaaaacatgc atttcaagga gaatagaatg atggttatca
147481 gagactggga acagttgtgg gtgggggtgt taagagaggt tgcttaatgg gtacaaacat
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147661 catagaaatg acaaaagctt gaggtaatgg ataccctaaa tatcctgact tgatcattac
147721 acagtctatg cgtgtaacga aataccatat gtaccccata aatatgtaca aatattatgt
147781 atcaataaaa atttttaaaa agaagctgca atcaacattt catcattatc ttttcagcag
147841 catccttaca aagttacaga gacatcttaa gatgtatccc tcttctctg aatcttctg
147901 ggatagaaca aatgaaaact aaacaaggag tgggctggga ggagctgtca acatccatcc
147961 taaggaaaag tctgttaggg ctatgagctt cctctgtcct agagtagagc tgggaaaata
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148081 ctttttagtg ctcagtggta gacagggtt aattctgttt agttatgcaa acaggccaga
148141 agaaactgaa ataggtatata aatgtttgaa gctggccaaa agaagatgta gtcacacaag
148201 ataccctctg gaggaagtgt actgtcagga aagtcacttt cctgaccagc aaaaggacca
148261 gcactatttt gtctgctga agaagtacat ttgtcctgct gctgtcatgg ggacagtggc
148321 tccagggtct cctgtggaca tgccacaagt tccactccat gagtcaggag atcatgcggt
148381 cagctggggg gaacttaggg ttgtctctt gagcttagcc ttatgctgcg tgtctgctt
148441 gccaccaca aaaacgatag tttcatagca agttgcaggc tccctggaaa cttaacctac

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FIGURE 4 (cont.'d)

148501	ctactaggat	acattttacag	ctgctttttct	cctggcatca	ggctggagat	caagaaatac
148561	ataaaacata	gtccctgccc	tcagtttagct	cagaatatgg	tgggggaatg	gagacagaag
148621	caaatactgg	tgggacaagt	gacgatgggc	caaaatatgg	gcttaaacaa	aggttgtggg
148681	agctcagaaa	aggagcaact	cactctgcct	gaaagagtca	tggagggctc	cacggaaaaa
148741	gcaacatttg	tgcaggagga	gattagaaca	cagaggagaa	ggatagcagc	actccagatg
148801	aaggggaagga	aatgtgccaa	gattttcatgg	gaatgagaag	atgtaaactg	ctcaggaaaa
148861	accatgggtg	aagctcttca	cagtggctga	agcatgggtg	gattgtcagt	tttgcttgct
148921	aacttgggtc	ggctgtagta	ctcaactatt	caaccaagca	ctgatctagg	tattgctgtg
148981	aagggtatttt	gtagtgcgaa	ttaacctcta	caatcagttg	actctattta	aaggacatta
149041	ttctgtacta	tctgagtggg	cctgatccac	ttcatcccaa	aggtaaatag	ttctccaaca
149101	gtgtttctcat	ctacatctag	ggcttggaag	atgaagggtg	aggagaatat	ggaaaaacaa
149161	caagaaaaaa	gtcaatcaat	cagaacttcc	agccctgtgt	ttgttagttc	actttatggt
149221	caaccagtat	gtctccactt	ttatctgctt	ccttgtaaga	tttcatctga	aaaaggggaat
149281	tcactcttca	gggtgttgga	atcaattatg	agagaagcac	ttacagaatg	actatctgaa
149341	gagctctgca	gacatttctc	agagtaaaac	aaccataacc	ggtgaaaatt	aaaaacaaac
149401	aaaataaaaa	aatgttagag	tattggaaat	tgttctaagg	gccgacagca	aatgaagaaa
149461	tccaagaaag	cctaccaatt	tcagttagag	gagttagagt	ctatgggtgt	gagcttatgg
149521	tgtttaagtt	ctgttcattt	cctccctctc	ctgcaatcag	ttcagtgaag	cagaaaccct
149581	gctccagaga	tgtgcagcca	aaaagacagg	gtgccctttc	ccctcagctc	ccaatctagg
149641	gcagactacc	agcatttccc	aagcccattc	ctggctctat	gttgacagaag	ttctattcca
149701	agaaagtttg	actgagaatc	tgaagcttcc	ttcttccact	cagcctctac	tattaaggcg
149761	taagttctat	ccccagtgcc	acgggccaag	aatactgatg	ctgaatgtcc	ttgctccgct
149821	acactcatag	ggcagagatt	ccatgggagg	agtgaagttt	ccattccaga	aaaggcagaa
149881	aaacagaaat	tactgcccc	tccagtaccc	caccataaaa	gaaggaaaga	catctgagaa
149941	aagcatgaca	ctgtccccaa	aaccacctgc	agagttagtg	cagtagaggc	agtagggaga
150001	ctagaggacc	tgccttagagg	gagaagttag	ccataagaag	aaaagtctct	agttctccct
150061	aaagggacaa	actttatttg	caacagaaca	tgcggaagtt	caagcctaag	ggcactgtca
150121	aaaacaatga	atatttttgg	ggtaagcaat	taataggtta	atggcagctt	agttagagca
150181	acaaactaaa	ccataaacca	gctagacata	tacaataaaa	atccaagaaa	gagagagcca
150241	agaagggcct	tcctgaggtt	aaaacaaaca	tcaaagtctt	gtctgaaaaa	ctgctcctgc
150301	aaaggaagca	aaatatattt	ggatcagact	gtggagcaat	ttatgcccc	aaaaagctgt
150361	caaaaccaa	agagcaatta	tctagcaatt	gctggagggt	aacagttggg	tatgatacca
150421	aaagaggcaa	acaactgaac	agatcagaga	aagaggcagt	caaagagagc	actgctaatt
150481	gcactgtaat	tccaatttga	gagaaaaatg	gccagtgct	gtgactccct	caggacaac
150541	atcagaggcc	acaaattatg	tgggaaatag	gcttcactat	atagtctagc	aggcaatta
150601	atacaataaa	caattaaaca	acagtaacat	agtgaggggg	gcagaaatga	gtattgcaac
150661	tagctagaac	atatttttga	acaaaaaaat	tatgagtcaa	gcagagatat	ggaaaagaca
150721	gagccataca	ccagaaaaaa	ggtaagcaag	agaaactgcc	tttgtgagtg	ccaagatgtc
150781	agacatagca	gaaaaaaaac	ctcaaagtaa	ttattataaa	tatgttcaaa	aactaaaaga
150841	aatgtgtgct	aaaaaataaa	agatgggtatg	ataatttctt	gtcaattcaa	aaataccaat
150901	aatagattaa	aaatatTTTT	tcaaaagtta	attaaccaa	tggaaattct	gggggttttaa
150961	agtaaaataa	caacaataag	aacattttgc	tagaggaaat	gaacaataga	tttgtaccag
151021	aaggaaaaat	aatcaaataa	acagggattt	catcaacacc	aaacctgtct	tacaagaaat
151081	actaaaggga	gttcaatctg	aaagaaagaa	cattaacaag	caacaggaaa	tcactctgaag
151141	gtacaaaact	cactgtacct	tcagatgata	ataagtcctc	aaaaaacaca	gaatattata
151201	acactgtaat	tatgggtgtg	aagctactta	tatcataagt	agaaagagga	aaagatgaac
151261	tgattaaaaa	acaattacaa	cagcttttca	agacagtata	ataagatata	taaataacag
151321	aaagcttaaa	agcatataaa	taaagttaaa	atgtagaggt	tttttttagt	ttctttttgc
151381	ttgattgtgt	attttattat	gcaatcagtg	ttgttttcat	cagcataaaa	taatgggtta
151441	taagatagta	tttgcaagcc	tcatagtaac	ctcaaattta	aaaacataca	atgtatacac
151501	aaaaagtga	gagcaagaaa	ttaaaacata	ccaccaaaaa	aaatactttc	actaaaaagg
151561	agacaggga	taagaaaaga	tgggagagaa	gatcacaaaa	caaccagaaa	ataaataaca
151621	aaatggcaag	caagtcctta	tttgtcaata	ataatattga	atgtaaatgg	actatactct
151681	ccagtaaaaa	gatacagagt	ggttgaatgg	attaaaaaaa	aggacccaat	gatctgttac
151741	ctacaagaaa	taaacttcac	ttataacaat	acacagacta	aaaataaagt	catgggaaat

FIGURE 4 (cont.'d)

151801 gatacttcac gacaatggaa accaaaaaag aacaggagta gctatacctt tatcagacta
151861 aatagatttc aagacaaaaa ttgttaagaa aaaccaaata aggtcattat ataatagataa
151921 agagatcagt taagcaagag gatgtaacaa ttgtaaatat atatgcactc aacattggag
151981 cacctagata aataaaacaa atattattag agctaaagaa agatagaccc cctcccccaa
152041 aacaataata gctgtagatt tcaatgctcc actttcagca ttggacagat cttccagaca
152101 gaaaatcagc aaggaaacat cagatgtaat ctgaactata gaccaaattgg gcctaataag
152161 tatttacaga atatttcac caaaggttac agaagacaca tttttctcct tagcacatac
152221 atcattctca agaacaggcc tcttctttga ccacaatgga ataaaactag aaaccaataa
152281 aactgaaata atctcaagca tcttctttga ccacaatgga ataaaactag aaaccaataa
152341 caaggggaat tttggaaact atacaaaaaac atggaaatta aacaatatgt tcctaataga
152401 taagtgggtc aatgaagaaa ttatgaattg aattgaaaat tttctaaaaa caaatgacaa
152461 tggaaacata atgcaccaga acctatggga tacaacaaaa gcagtaccaa gagtgatatt
152521 tccagataag ggcctacatc aaaaagggaag aaaaacttca agtgaataac ctgatgatgc
152581 atcttaaaga attaaaaagg caagagttaa ccaaacccaa aattagtaga agaaaagaac
152641 taataaagat cacagtagaa ataaaataaaa ttggacttct gctccaagat ggcctaatag
152701 aaacagctcc agtctgcagc tcccagcatg attggcacag aagatgggtg atttctgcat
152761 ttccaactga ggtaccaggt tcatctcatt gggactgggt ggacaatgga tgcagcccat
152821 ggagggtag gtagagcagg gtgaggagtc acctcacccc ggaagcaca gtgattgggg
152881 gatttccctt tcttagccaa ggggaagcgt gacagactgt acctggaaaa tgggttccat
152941 cccacccaaa tactgtgctt tccccatagt cttagcaacc ggcagaccag gagattctct
153001 cccaagccta gctcatcagg tcccagctcc acggagcctg gctcactgct agcacagcaa
153061 tctgagatca acctgcgagg ctgcagctgg gtggggggag ggggtgcagc cattgctgag
153121 gactgagtag gtaaacaaag tggccaggaa gctcaaactg ggcagagccc accgcagctc
153181 agcaaggcct actgcctcta tagattccac ctctgtgggc agggcataac tgaacaaaag
153241 gcagcagaca acttctgcag atttaaacgt ccctgcctga cagctctgaa gagagcagtg
153301 gttgccccga ctggcactct gagctctgag aacagacaga ctgcctcctc aagtgggtcc
153361 ctaaaactcca tgtagcctaa ctgggagaca tctccccata ggggccgaca gacacctcat
153421 acaggtgggt gccactctgg gacaaagctc tcagaggaag gatcaggaag caatatttgc
153481 tcttctgcaa tatttctgtg tctgcagcct ctgctggtga taccaggga aacagagtct
153541 ggaatggacc tccagcaaac tccagcagac ctgcagctga gggacctgac tgctagaagg
153601 aaaactaaca acaaaaaagg aatagcatca acatcaacaa aaaggacatt cacaccaaaa
153661 cctcatctgt agtcaccaat atcaaagacc aaaggtagat aaaaccacaa agatggggag
153721 aaaccagagc agaaaagctg aaaattctaa aaactgagca ccgcttctcc tccagaggat
153781 tgcaactcct caccggcaac ggaatgaagc tgggtggaga atgactttga caagtgggca
153841 gaagtaggct tcagaaggct ggaataaaca aactactcca aactaaagga gcatgttcta
153901 acccattgca aggaagctaa aaaaccttca aaaaagggtta gacaaatggc taactagaat
153961 aaacagtgtg gagaggaact taaatgacct gatggagctg aaaaccgtgg catgaggaca
154021 tcatgatgca tgcacaagct taaatagctg attaaatcaa gtggaagaaa gaatatcagt
154081 gactgaagat caaattaaca aaataaagca agaagataag attagagaaa aaagagtaaa
154141 aagaaatgaa aagcacctcc aagaaatatg ggactatgtg aaaaaaccaa atctacactt
154201 gattggtgta cctgaaagtg atggggagaa ggaaaccaag ttggaaaaca ctcttcagaa
154261 tactatccag gagaacttcc ccaaactagc aaggcaggcc aacattcaaa ttcaagaaat
154321 acagagaaca ccacaaagat attcctcaag aagagcaacc ccaagacaca taattgtcag
154381 cttcaccaag gttgaaatga aggaaaaaaa tggttaagggc agccagagag aaacgttggg
154441 ttaccaacaa aggggaagccc atcagactaa aagtagctct ctcagcagac accctgtaag
154501 ccagaagaga gtaggggtca atattcaaca ttcttaaaga aaataatttt caaccagaa
154561 tttcatatcc agccaaacta agcttcataa gtgaaggaga aataaaatcc tttacagaca
154621 agcaaatgct gagagatttt gtcaccatca ggcctgcctt acaagagctc ctgaaggaaa
154681 cactgaacat ggaaagggaac aactgttacc agccactgca aaaacacgcc acattgtaaa
154741 gaccatcgat gacatgaaga aactgcaaca attaactggc aaaataagca gctcacagca
154801 taatgacagg atcaagttca cacataacaa tattaacctt aaatgtaaat gggctaaatg
154861 cctcaattaa agacacagac tggcaaatgt catagagtca agacctatca gtgtgcggta
154921 ttcaggagac ccatctcaca tggcaagaca cacataggga tggaggaaga tccaccaagc
154981 aaatggaaag ccaaaaaaaa aaaaaaaaag aaaaaaagca ggggttgcaa tctagtctc
155041 tgataaaaaca gagtttaaac caacaaagat ccaagagac aaagaaagcc attacataat

FIGURE 4 (cont.'d)

155101 ggtaaaagga tcaataacaac aagaagaaca aactatccta aatatatatg caaccaatat
155161 gggagcaccc agattcataa agcaagtctg tagagacgta caaagagatg tagacttcca
155221 cacaataata atgggagact ttaacactcc actgtcaata ttagacagat caatgacaca
155281 gaagggtcac aaagatatcc aggacttgaa ttcagctatt caccaagtgg acctaataga
155341 catctacaga actctacacc ccaaatcaac agaatgtaca tactttctcag caccacatca
155401 tactttattct aaaattgacc acataattgg aagtaaaaca ctctcagca aatgtaaaag
155461 aacagaaatc acaacaaact gtgtctcaga ctacagtgc aacaaattag aactctggat
155521 taataaaact actcaaaatc acacaactac atggaaactg aataacctgc tcctgaatga
155581 ctactgggta cataatgaaa tgaaggcaga aataaagatg ttctttgcaa ccaataagaa
155641 caaagacaca acataccaga ttctccggga cacattttaa gcagtgtgta cagggaaaat
155701 tatagcacta aatgcccaac agagaaaagca ggaaagaact aaaatcaaca acctaacatc
155761 gcaattaaaa gaactagaga agcaagagca aacacattca aaagctagca gaaggcaaga
155821 aataactaag atcagaacag aactgaagga gatagagaca caaaaagcac ttcaaaaaaa
155881 tcaatgaatc caggagctgg tttttaaaaa gatcaacaaa attaataagac cgctagcaag
155941 aataataaag aaaagagaga agaatcaaat tagactcaat aaaaaagat aaaggggata
156001 tcaccactga tcccatagaa atacaaacta ccatcagaga atactataaa cacctctaca
156061 taaataaact agaaaatcta gaagaagggg gagggagccaa gatgggcaaa taggaacagc
156121 tccagttctac agctcccagc gtgagtgcaga cagaagacgg gtgattttctg cattttccatc
156181 tgaggtaccc ggttcatctc actagggagt gccagacagt gggcacagggt cagtgggtgc
156241 gcgcactgtg tgcgagccaa tgcaggggtga ggcgttgct cactcgggat gtgcaagggg
156301 tcagagagtt ccttttcta gtcaaagaaa ggggtgacag atggcacctg gaaattcggg
156361 tcaactccac ctgaatactg cacttttcca acgggcttaa aaaacggcgc acctggagag
156421 tatatccgc acctggcttg gagggctcta tgcccacgga gtcttgctga ttgctagcac
156481 agcagtctga gatcaaaact caaggcagcg gcgaggctgg gggaggggcg cctgccattg
156541 cccaggcttg cttaggtaaa caaagcagct gggaacctca aactgggtgg atcccaccac
156601 agctcaagga ggctgcctg cctctgtagg ctccacctct gggggcaggg cacaggcaaa
156661 caaaaagaca gcagtaacca ctgcagactt aaatgtccct gtctgacagc tttgaagaga
156721 gcagtgggtt tcccagcacg cagctggaga tctgagaacg ggcagactgc ctctcaagt
156781 ggggtccctga cccctgacct ccgagcagcc taactgggag gcacccccga gcagaggcag
156841 actgacacct cacacagccg ggtactccaa cagacctgca gctgagggtc ctgtctgtta
156901 gaaggaaaac taacaaacag aaggacatcc acacaaaaa cccatctgta catcaccatc
156961 atcaaagacc aaaagtagat aaaaccacaa agatggggaa aaaacagagc agaaaaacta
157021 gaaactctaa aaggcaaagc gcctctctc ctccaaagga atgcagttcc tcaccagga
157081 tggaaacaaag ctggacggag aatgactttg acgagctgag agaagaaggc ttcagatgat
157141 caaattactc cgaactacgg gaggacttcc aaaccaaagg caaagaagtt gaaaacgttc
157201 aaaaaattta gaagaatgta taactagaat aaccaataga gagaagtgtc taaaggagct
157261 gatggagctg aaaaccaagg ctcgagaact acgtgaagac tcaggagccg atgcgatcaa
157321 ctggaagaaa gggatatcagc gatggaagat gaaatgaatg aaatgaagtg agaaggaaag
157381 tttagagaaa aaagaataaa aagaaatgaa caaagcctcc aagaaatatg ggactatgtg
157441 aaaagaccaa atctacatct gattggcgta cctgaaagtg acggggagaa tggaaaccaag
157501 ttggaaaaca ctctgcagga tattatccag gagaacttcc ccaatctagc aaggcaggcc
157561 aacattcaga ttcaggaaat acagagaacg ccacaaagat actcctcgag aagagcaaca
157621 ccaagacaca taattgtcag attcaccaaa gttgaaatga agggaacaat gttaagggca
157681 gccagagaga aaggctgggt taccctcaaa gggaagccca tcagactaac agcggatctc
157741 tcggcagaaa ctctacaagc cagaagagag tgggtggccaa tattcaacat tcttaaggaa
157801 aagaattttc aaaccagaat ttcataatac gccaaactaa gcttcataag tgaaggagaa
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157921 aaagagctcc tgaagggaagt gctaacatg gaaaggaaca accggtacca gccgctgcaa
157981 aatcatgcc aatgttaaag accatcgagg ctaggaagaa actgcatcaa ctaacgagca
158041 aaacaacctg ctaacatcat aatgacagga tcaaattcac acataacaat attaaattta
158101 catgtaaatg gactaaatgc tgcaattaaa agacacagac tggcaaatg cataaagatt
158161 caagacccat cagtgtgctg tattcaggaa acccatctca cgggcagaga cacacatagg
158221 ctcaaaaataa agggatggag gaagacctac caagcaaatg gaaaacaaaa aaaaggcagg
158281 gggtgcaatc ctagtctctg ataaaacaga ctttaaacca acacagatca aaagagacaa
158341 agaaggccat tacttaatgg taaagggatc aattcaacaa gaagagctaa caatcctaaa

FIGURE 4 (cont.'d)

158401 tatatatgca cccaatacag gagcaccag attcataaag caagtcctga gtgacctaca
158461 aagagactta gactaccaca cattaataat gggaaacttt aacacccac tgtcaacatt
158521 agacagatca acaagacaga aagtcaacaa ggatacccag gaattgaact cagctctgca
158581 ccaagcagac ctaatagaca tctacagaac tctccacccc aaatcaacag aatatacatt
158641 tttttcagca ccacaccata cctattttcaa aattgaccac atacttgga gtaaagctct
158701 cctcagcaaa tgtaaaagaa cagaaattat aacaaactgt ctctctaacc acagtgaat
158761 caaactacaa ctcaggatga agaaactcac tcaaaactgc tcaactacat ggaaactgaa
158821 caacctgctc ctgaatgact actgggtaca caacgaaatg aaggcagaaa taaagatgtt
158881 ctttgaaacc aatgagaaca aagacacaac ataccagaaa ttctgggatg cattcaaagc
158941 agtgtgtaga gggaaatttg tagcactaaa tgcccacaag agaaagcagg aaagatccaa
159001 aattgacacc ctaacatcac aattaaaga actagaaaag caagagcaaa cacattcaaa
159061 agctagcaga aggcaagaaa taactaaaat cagagcagaa ctgaaggaaa cagagacaaa
159121 aaaaaccctt caaaaattaa tgaatccagg agctgggttt ttgaaaggat caacaaaatt
159181 gatagaccgc tagcaagaat aataaagaaa aaaagagaga agaatacaat agatgcaata
159241 aaaaatgata aaggggatat caccaccgat cccacagaaa taaaaactat catcagagaa
159301 tactacaaac acctctatgc aaataaacta gaaaatctag aagaaatgga taaattcctc
159361 gacacatata ctctcccaag actaaaccag gaagaagttg aatctctgaa tagaccaata
159421 acaggagctg aaattgtggc aataatcaat agcttaccaa ccaaaaagag tccaggacca
159481 gatggattca cagccgaatt ttaccagagg tacaaggagg aactgggtacc attccttctg
159541 aaactattcc aatcaataga aaaagaggga atcctcccta actcatttta tgaggccagc
159601 atcatcctga taccaaagcc gggcagagac aaaacccaaa aagaggattt tagaccaata
159661 tccttgagga acattgatgc caaaatcctc aataaaaatac tggcaaacca aatccagcag
159721 cacatcaaaa agcttatcca ccatgatcaa gtaggcttca tccctaggat gcaaggcttg
159781 ttcaacatat gcaaatcaat aaatgtaatc cagcatataa acagaacca acagaaaaac
159841 cacatgatta tctcaataga tgcagaaaag gcctttgaca aaattcaaca acacttcatg
159901 ttaaaaaactc tcaataaatt aggttaatgct gggacgtatc tcaaaaataat aagagctatc
159961 tatgtcaaac ccacagccaa tatcatactg aatgggcaaa aactggaagc attccctttg
160021 aaaattggca caagacaggg atgcctctc tcaccactcc tattcaacat agtgctggaa
160081 gatctgtcca gggcaatcag gcaggagaag gaaataaagg gtattcaatt aggaaaagag
160141 gaagtcaaat tgtccctgtt tgcagatgac atgattttat atctagaaaa cccattgtc
160201 tcagcccaaa acctccttaa gctgataagc aacttcagca aagtctcagg atacaaaatc
160261 aatgtacaaa aatcacaagc attctttata accaacaaca gacaaacaga gagccaaatc
160321 atgagtgaac tcccattcac aattgcttca aagagaataa aatacctagg aatccacctt
160381 acaagggatg tgaagcacct cttcaaggag aactacaaac cactgctcaa cgaaataaaa
160441 gaggatacaa acaaatggaa gaacattcca tgctcatggg taggaagaat caatattgtg
160501 aaaatggcca tactgccc aaatatttac agattcaatg ccatccccat caagctacca
160561 attactttct tcacataatt ggaaaaaact actttaaagt tcatatggaa ccaaaaaaga
160621 gcccgcata ccaagtcaat cctgagccaa aagaacaagg ctggaggcat cacactacct
160681 gacttcaagc tatactacaa ggctacagta accaaaacag ctgtgactg ttacaaaaac
160741 agagatatag atcaatggaa cagaacagag ccctcagaaa taatgctgca tatcgacaac
160801 tgtctgatct ttgacaaaacc tgagaaaaaac aagaaatggg gaaaggattc cctatttaat
160861 aaatggtgct gggaaaactg gctagccata tgtagaaaga tgaaactgga tcccttcctt
160921 acaccttata caaaaattaa ttcaagatgg attaaagact taaatgtcag acctaaaacc
160981 ataaaaaccc tagaagaaaa cctaggcatt accattcagg acataggcat gggcaaggac
161041 ttcatgtcta aaacacccaa agcaatggca acaaaagcca aaattgacaa atgggatcta
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161161 acagaatggg agaaaatttt tgcaatctac tcatctgaca aagggtcaat attcagaatc
161221 tacaagaac ttaacaaat gttcaagaaa aaaacaaccc catcaaaaag tgggcaaaat
161281 acatgaaaag acacttctca aaagaagaca tttatgcagc caacagacac atgaaaaaat
161341 gctcatcatc actggccatc agagaaatgc aaatcaaaac cacaatgaga taccatctca
161401 caccagttag aatgacgatc attaaagtca ggaaacaaca gatgctggag aggcacatgga
161461 gaaataggaa tgcttttaca ctgttggtag ggggtgaaat tagttcaatc attgttgaag
161521 acagtgtggc aattcctcaa ggtatgtgaa ctagaaatac catttgacct agcaatccca
161581 ttactgggta tataccgaaa agattacaaa tgggtgcaact ataaagacac atgcacacga
161641 atgtttattg tggcactatt cacaatagca aagacttcta acaaaccag atgtccatca

FIGURE 4 (cont.'d)

161701 atgatagact ggattaagaa aatgtggcac atatacacca tggaaacta tgcagccata
161761 aaaaaggatg agttcatgtc cttttcaggg acatggatga agctggaaac catcattctc
161821 agcaaaactat gacaaggaca gaaaacccaaa caccgcatgt tctcactcat agatgggaac
161881 tgaacaatga gaacacttgg acacagggca ggggaacatca cacaccaggg cctgttgggg
161941 ggtggtggac tgggggagag atagcattag gagaaatacc taatgtaa atgatgattga
162001 tggatgcagc aaaccaacag ggcacatcta tacctatgta agaaacctgc actttgtgca
162061 caggtaccct agaacttgaa gtataataaa aatgaaaaaa agaaaatggt actagcaaat
162121 tgtagatggg tataccta atactctgc atgtgcacta tgtgtctgga tacacatgga
162181 aagtattcag gcatacacac caaattgtta aaataaatcc cttccaaca ttaggagtgg
162241 ctggggagca gatggctttc acttccgcac attccatggg gccagggtaa taccacatca
162301 caatagtaaa tagcaaaaa atacaacctta agtttagatt ttcttatcta aattttaatt
162361 ctgtgaagaa gtttccattt ccttttttca cacaggatag tagaatgcag tttagaaaga
162421 gtgagatcac ttgttagact gtacaatttt taagcatcag cgaagtatac cattaaactt
162481 ctctatcaat ccatttctta aacttcccaa cccaaaaaaa aagaaacaca taaaattgaa
162541 atgaagaaaa caatacaaaa gatcaacaaa aatgaaagg tggcttttta aagagataaa
162601 caaaattgac aaatgtttag ccagactaag aaaaagagaa ggcccaata aataaaatca
162661 gagatgaaaa agcagacatt ataactgata ctgcggaat tcaaaggatc attaatggct
162721 actatgagca actgtatgcc aaacattgga aaatattgaa gaaatagata aattcgtaga
162781 cacacgcaac ctaacaagat tcaacatga agaaattcaa aatctgaaca gacaaaaaac
162841 aagtaacaag atcaaagcca taattaaaat tttccagca aagaaaagcc tgagacccaa
162901 tggcttctact gctgaattct atcaaactt taaagaacta ataccaatcc tactcaact
162961 attccaaaaa gtagaagagg agggaatatt tccaaactta ttctatgagg ccattactgc
163021 tcctatatca aaaccaagga cacatcaaaa aaagaaaact ataggccaat atctcacatg
163081 aatattgatg aatcctcaaa aaatgctagc aaactgaatt caacatcaca ttaaaaaatca
163141 ttcattatga ccaaattggga tttatcccag ggatgcaaat atggttcaac atatacacat
163201 cagtcagtgt aacatatcat atcaacagaa tgaagaagaa aaaccatag gtcattgtta
163261 ttgatgtctga aaaagtattt gagagaatta aacatctctt catgacaaaa accctcaaaa
163321 acactggaga cagaaggaa atacctcaac acaataaaca gacatatatg acagactcac
163381 agctagaatc atactaaatg gggagaaact gaaagtcatt cctctaagat ctggaacaag
163441 acaaggatgc tcattttcac cagtgttagt ggaacatagt actgaaagtc ctatgtagaa
163501 cagactagag acagaaataa ggggcatcca aactgggaag agagaagtc aattaccttt
163561 gttcgcagat ggtatgatct tctgtttgga aaaacctaga ctccataaaa aaatgattag
163621 aactgataaa ttcagtaaag tttcaggata caaaattaa atacaaaaat cagtgcatt
163681 tctatatgtc aatagcaaac aatctgaaaa tgaaatcaag gaagttaacc catttccat
163741 ttgcaatagc tataaataaa attaatataa tctcatctct tcaataagtg gtgttgggaa
163801 aactgcatac ccacatacaa aagaataaaa ttagaccctt ttaatatata aaactggacc
163861 caagttaata taaaaaaatt aacttgaaat gaattaaaga cttaaatgta agatctgaaa
163921 ccaaaaactc ctagagagaa acatagggga aaagctcctt gacgttggcc ttggcaataa
163981 ttttttggga tattacacca aaagcacaga cttttgaaaa aataaacaag taggactaca
164041 tcaaactaaa aagcttctgc atggcaaaaag aaagtcaaca acatgaaaag gcaacctaca
164101 gaatggaggg aaatatttgc aaaccatata cctgatgaga agttaatatc aaaatataga
164161 aaatatataa ggaactcaca tatctcaata ccaaaaaaat aataacctgt ttataatgg
164221 gcaaaggacc tgaatagaca ttttttcaaa gaagacacac agatggccaa cgagtgcagg
164281 aaaaagcgtt caacatcact aatcatcagg gaaatgcaaa tcaaaaccac aatgagatat
164341 cactccacac ctgttaggaa agctattatg aaaaacacaa gagacaatga atattggcaa
164401 gggcatggag aaaaaagaac ccttgtacac tgttggtaga aatgtaaatt gcaacagcct
164461 ttatggaaaa tagaatggag gttcctcaaa aaataaaaa atagaactacca tacaatctag
164521 caattccact tatgagtgt catccaaagg aatcaaata ctatgtcaaa gagatatctg
164581 tacttccttg tttattgcag ctttactcac agtagccaag ataaggaaaa aatctaaatg
164641 tccatcaacg gataaagaaa atgggggggag ggggtgtgcat gtatacatat acaatggact
164701 atttttcagc cataacaaa aaggaacccc tgccatttgt gacgatatga atgaacccag
164761 aggacattat gttaagttaa atagccaga cacagaaata caaatattgt atgatctcat
164821 ttatgtgcga atctaaaaat ttcaaaacttg aagacgaata agtagaacag tatttatcag
164881 gatctagggg atgtggggaa gaagcaaaa attgggcaaa gagtataaac tttcagttat
164941 gagatgaagg ccaggtgcga tggctcatgt tggtaatccc aatactttgg aaggctgagg

FIGURE 4 (cont.'d)

165001	cagaggggatt	gcttgagacc	agcctaggca	agaaagtgag	acctcatctc	tacaaaaaat
165061	aaaaataaaa	gaatcagctg	ggagtgggtg	catacacctg	tagtcccagc	tagtcaggag
165121	gctgaggggg	gaggatcatt	tgaaattgga	aagtcaaggc	tgcagtcagc	caagatagtg
165181	ccactgcatt	gcagcctggg	tgacagagcg	aaaccctgtc	tcaaaaaaaaa	aaaaaaaaaa
165241	aagatgaata	agttctgggg	atcaaagtga	cagcatgggtg	actatagttt	ataactgcgt
165301	tattacttga	aattggataa	gagcagattt	taagcatccc	cagcaccccc	ccaacataca
165361	cacacacaaa	tggttaactat	aggtgggtgat	agatatgtta	atlttgactgt	gacaatcagc
165421	attcaatata	tacatatatc	aaatcatcac	atltttacccc	ttgaaataga	aactttgatt
165481	tgtcaatcaa	atatttttaa	acgaaaataa	tcataatatt	aatatagcat	acaggaaaaa
165541	atlttcgtatc	tcgactgata	cagaaaaattt	catgataaaa	acacttttaa	acaaaagaaa
165601	taaaagggaa	ctccctcaac	ctgataaatg	gcatctgtgg	aaacccccag	ctagcatcaa
165661	acttaataca	gaaaggctgg	gtgttcacct	cttgaaccag	gaacaagaca	aagatgcctg
165721	cttttgccac	ttccatttga	ccttgactgtg	aggttctggc	tagggcaatt	atccctgaaa
165781	aagaaataaaa	aggcttccaa	ataaaagaag	aagtaaaact	atctctactc	gctcatgaca
165841	tgatcttgca	tatagaaaat	gtgcacatgt	acacacacac	aaaccattag	aactaataaa
165901	caagttcagc	aagtttgcag	aatataaaat	gaatgtacaa	aaatcaagtg	tttttctata
165961	tactagcaat	taacaatctc	aaaattgaatt	aaaattccat	ttacaatagt	atcaaacata
166021	aattattttag	aaataaaaaa	tgcaactgaaa	actacaaaat	atlttgaaat	aaatcagaaa
166081	agattttaagt	aaatggatca	cttgaacctg	ggaagcagag	gttgcaagtgt	gccgagattg
166141	taccactgca	ctttagcctg	ggcaacagag	ggagactcca	aagagtcgaa	aagaaaagaa
166201	aagattttaa	taagctgaaa	catattctat	ggatcagaag	acttaatatt	gttaaagtga
166261	caatattccc	caaattgatc	tacagcttca	actcaacccc	tatcaaaatc	ctagcttgct
166321	ttttggctga	aattgacaag	ctgattctat	aatttatatg	gaatctcaaa	ggatccagaa
166381	taaccaaaac	aatattgaaa	aataaagaac	agcgttgggtg	gattaacatt	ttccaatttc
166441	aaaacttact	atagcactgc	ggtaatcaag	cagtgtggca	ctgtatagca	tgtacattac
166501	agatcagtgg	actagaatca	atgtccagaa	ataaaccgtt	atgtttataa	tgaattactt
166561	tttaataagg	tgtcaagaca	acgcaatggg	aaaagaataa	tgaattcaac	aaatgatgca
166621	tggacaaccg	gacatgcaca	tgcaacacaa	tgaatttgaa	ttcttctatc	gctccatgca
166681	taaaaactaa	ctcaaaatgg	gtcacggatg	taaatgaaaa	gctaaaacta	taataatcct
166741	agaggaaaac	ctaggagtaa	atctttaaga	tgttattgta	ggcagtggtt	tctcagatag
166801	gaccccaaaa	tcacaagcga	caaaagaaat	tggacttaaa	gttaaatact	tttgtgcttc
166861	aaacatcatc	aagaaagtga	aaacacaacc	cgcagaagca	ataaaaaatg	ctgtaagtca
166921	tgtatccgat	tagagacttc	tatccaggat	atataaataa	tgcaattcaa	tgataaaaaa
166981	gataaatagc	ccagttttcc	aaagagtcaa	gcatctgaat	atacatctct	ccaaaaatat
167041	acagatatcc	aacaagcatg	tgaaaagatg	ttcaaagcca	tttgccaggt	gcacaaaccc
167101	aagacagtat	gaggagatgc	tacaggagact	ctgctgcttc	acagacatga	agcgttgggtg
167161	agaatgtagg	cagccgcctt	tggggacttc	acatccccgc	cgcgccacgc	acggtgagct
167221	agtgttttaa	cttagccgag	atcaatacac	gcgactgtgt	gcccgtcaga	ccctgcgctg
167281	ccggcggggc	tgggagaggc	gggcgccagg	agtgggcggg	aacctggggg	tcaggcccca
167341	gccgcgggaa	gccgccagg	agcgcgcgaa	accttctcca	caccttcca	ggcatttgcc
167401	cgccgcgatt	cagagagccg	accctgaccc	cctggcctcc	cctagacagc	cccgcatgtc
167461	cagatgtgcc	gtcccgctg	cctcccgcca	ccactggcca	tctctgggcc	tgggcgcggt
167521	ctcggcgccc	gcctgcccc	gccaggagcc	gcaggtccag	ccagtgaaga	agccgcgct
167581	gaaggagcct	ctgtgctcca	gaatccatcc	tcagtatcag	cgtgggggtg	gcctctcca
167641	ggaagccctt	ctgattctct	catgggtcgc	tcttctctctg	cagactcccg	gagcaccctt
167701	gctccaagta	ccgcaagtgg	cactgagaac	ttggggagag	cagaggctgt	gcctagattt
167761	gtagggagtc	cccgagctc	cacccaggg	cctacaggag	cctggccttg	ggcgaagccg
167821	aggcaggcag	gcagggcaaa	gggtggaagc	aattcaggag	agaacgagtg	aacgaatgga
167881	tgaggggtgg	cagccgaggt	tgccccagtc	ccctggctgc	aggaacagac	acctcgctga
167941	ggagagaccc	aggagcgagg	cccctgcccc	gcccagaggc	aggtcccgc	cagtcggcgc
168001	cgcgatgaaga	gtgggagaga	atactgcggg	ggcgggggcg	ggggcggggg	cggggcgggg
168061	ggccgcccgg	agcctggagc	cagaccgggc	ggggccggca	ccgggcccag	gacagtgggg
168121	gaggaggctg	cgggctgagc	gaccctgacc	ccccccagtc	cgcgctgggt	cggg